# SERVICE MANUAL

# AE-2 CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|
| KV-B2511A | RM-830 | Italian | SCC-F18F-A |
| KV-B2511B | RM-830 | French | SCC-F32M-A |
| KV-B2511D | RM-830 | AEP | SCC-F26F-A |

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|
| KV-B2513E | RM-830 | Spanish | SCC-F33F-A |
| KV-B2511K | RM-830 | OIRT | SCC-F72A-A |
| KV-B2512U | RM-830 | UK | SCC-F25D-A |

## TRINITRON® COLOR TV

SONY®

MICROFILM

| ITEM MODEL | Television system | Stereo system | Channnel coverage | Color system |
|---|---|---|---|---|
| Italian | B/G/H, D/K | GERMAN Stereo | ITALIA VHF:A-H2 (C) UHF:21-69<br>PAL B/G/H VHF:E2-E12 UHF:E21-E69<br>CABLE TV (1):S1-S41<br>CABLE TV (2):S01-S05, M1-M10, U1-U10<br>D/K VHF:R01-R12 UHF:R21-R69 | PAL, SECAM<br>NTSC 4.43, NTSC 3.58<br>(VIDEO IN) |
| French | B/G/H, D/K L, I | GERMAN Stereo | L VHF:F02-F10 UHF:F21-F60<br>CABLE:B-Q B/G/H VHF:E2-E12<br>UHF:E21-E69<br>CABLE TV (1):S1-S41<br>CABLE TV (2):S01-S05, M1-M10, U1-U10<br>ITALIA VHF:A-H2 (C) UHF:21-69<br>D/K VHF:R01-R12 UHF:R21-R69<br>I UHF:B21-B69 | PAL, SECAM<br>NTSC 4.43, NTSC 3.58<br>(VIDEO IN) |
| AEP | B/G/H, D/K | GERMAN Stereo | PAL B/G/H VHF:E2-E12 UHF:E21-E69<br>CABLE TV (1):S1-S41<br>CABLE TV (2):S01-S05, M1-M10, U1-U10<br>ITALIA VHF:A-H2 (C) UHF:21-69<br>D/K VHF:R01-R12 UHF:R21-R69 | PAL, SECAM<br>NTSC 4.43, NTSC 3.58<br>(VIDEO IN) |
| Spanish | B/G/H, D/K | GERMAN/NICAM Stereo | PAL B/G VHF:E2-E12 UHF:E21-E69<br>CABLE TV (1):S1-S41<br>CABLE TV (2):S01-S05, M1-M10, U1-U10<br>ITALIA VHF:A-H2 (C) UHF:21-69<br>D/K VHF:R01-R12 UHF:R21-R69 | PAL, SECAM<br>NTSC 4.43, NTSC 3.58<br>(VIDEO IN) |
| OIRT | B/G/H, D/K | GERMAN Stereo | B/G/H VHF:E2-E12 UHF:E21-E69<br>CABLE TV (1):S1-S41<br>D/K VHF:R1-R12 UHF:R21-R60 | PAL, SECAM<br>NTSC 4.43, NTSC 3.58<br>(VIDEO IN) |
| UK | I | NICAM Stereo | UHF:B21-B69 | PAL<br>SECAM, NTSC 4.43<br>NTSC 3.58 (VIDEO IN) |

| MODEL | Italian | French | AEP | Spanish | OIRT | UK |
|---|---|---|---|---|---|---|
| Power consumption | 104 Wh | 101 Wh | 101 Wh | 102.5 Wh | 100 Wh | 151 Wh |

| | |
|---|---|
| Picture tube | Hi-Black Trinitron<br>Approx. 63 cm<br>(Approx. 59 cm picture measured diagonally)<br>110 ° -deflection |

**【REAR】**

-⊖ 1 21-pin Euro connector (CENELEC standard)
Inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals

-⊖ 2/-⊖ 2 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)

-⊖ Audio inputs (variable) -phono jacks

**【FRONT】**

-⊖ 3 Video input-phono jack
-⊖ Audio input-phono jacks
-⊖ 3 S video input 4-pin DIN
∩ Headphone jack : Stereo minijack

| | |
|---|---|
| Sound output | 2×15 (RMS)<br>2×30 (Music) |
| Power reqirement | 220-240 V |
| Dimensions | Approx.663 x 506 x 507 mm |
| Weight | Approx.35.5 kg |
| Supplied accessories | RM-830 Remote Commander (1)<br>IEC designation R 6 batteries (2) |

**【RM-830】**

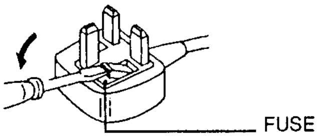
| | |
|---|---|
| Remote control system | infrared control |
| Power requirements | 3 V dc<br>2 batteries IEC designation<br>R 6 (size AA) |
| Dimentions | Approx.65×225×21 mm (w/h/d) |
| Weight | Approx.157g (Not including Batteries) |

Design and specifications are subject to change without notice.

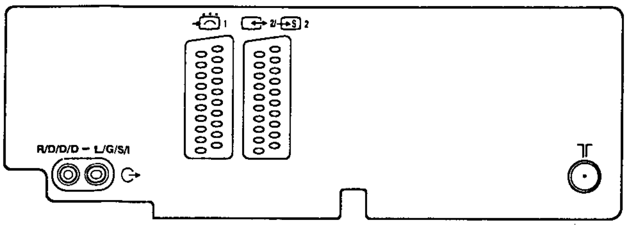
| Model name<br>Item | KV-B2511A | KV-B 2511 B | KV-B 2511 D | KV-B 2513 E | KV-B2511K | KV-B 2512 U |
|---|---|---|---|---|---|---|
| Pal Comb | OFF | OFF | OFF | OFF | OFF | OFF |
| PiP | OFF | OFF | OFF | OFF | OFF | OFF |
| RGB Priority | ON | OFF | OFF | OFF | OFF | OFF |
| Woofer Box | OFF | OFF | OFF | OFF | OFF | OFF |
| | | | | | | |
| Scart 1 | ON | ON | ON | ON | ON | ON |
| Scart 2 | ON | ON | ON | ON | ON | ON |
| Front in (3) | ON | ON | ON | ON | ON | ON |
| Scart 4 | OFF | OFF | OFF | OFF | OFF | OFF |
| Dyn. Convergence | OFF | OFF | OFF | OFF | OFF | OFF |
| Projector | OFF | OFF | OFF | OFF | OFF | OFF |
| AKB in 16:9 mode | ON | ON | ON | ON | ON | ON |
| Norm B/G | ON | ON | ON | ON | ON | OFF |
| Norm I | OFF | ON | OFF | OFF | OFF | ON |
| Norm D/K | ON | ON | ON | ON | ON | OFF |
| Norm AUS | OFF | OFF | OFF | OFF | OFF | OFF |
| Norm L | OFF | ON | OFF | OFF | OFF | OFF |
| Norm SAT | OFF | OFF | OFF | OFF | OFF | OFF |
| Norm M | OFF | OFF | OFF | OFF | OFF | OFF |
| | | | | | | |
| Language Preset | Italiano | Francais | Deutsch | None | English | English |
| | | | | | | |

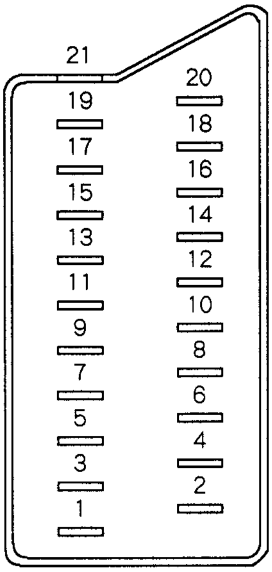
## Warning (UK Model only)

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use 5 AMP FUSE approved by ASTA to BS 1362, ie. carries the ◈ mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME.
IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.
When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



## 21 pin connector (⇦1 ⇔2/⇔4)





| Pin No | 1 | 2 | Signal | Signal level |
|---|---|---|---|---|
| 1 | ○ | ○ | Audio output B<br>(right) | Standard level : 0.5Vrms<br>Output impedance : Less than 1kohm * |
| 2 | ○ | ○ | Audio input B<br>(right) | Standard level : 0.5Vrms<br>Input impedance : More than 10kohms * |
| 3 | ○ | ○ | Audio output A<br>(left) | Standard level : 0.5Vrms<br>Output impedance : Less than 1kohm * |
| 4 | ○ | ○ | Ground (audio) | |
| 5 | ○ | ○ | Ground (blue) | |
| 6 | ○ | ○ | Audio input A<br>(left) | Standard level : 0.5Vrms<br>Input impedance : More than 10kohms * |
| 7 | ○ | ● | Blue input | 0.7 ± 3dB, 75ohms, positive |
| 8 | ○ | ○ | Function select<br>(AV control) | High state (9.5 – 12V) : Part mode<br>Low state (0 – 2V) : TV mode<br>Input impedance : More than 10kohms<br>Input capacitance : Less than 2nF |
| 9 | ○ | ○ | Ground (green) | |
| 10 | ○ | ○ | Open | |
| 11 | ○ | ● | Green | Green signal : 0.7V ± 3dB, 75ohms, positive |
| 12 | ○ | ○ | Open | |
| 13 | ○ | ○ | Ground (red) | |
| 14 | ○ | ○ | Ground (blanking) | |
| 15 | ○ | – | Red input | 0.7V ± 3dB, 75ohms, positive |
| | – | ○ | (S signal)<br>croma input | 0.3V ± 3dB, 75ohms, positive |
| 16 | ○ | ● | Blanking input<br>(Ys signal) | High state (1 – 3V) Low state (0 – 0.4V)<br>Input impedance : 75ohms |
| 17 | ○ | ○ | Ground (video output) | |
| 18 | ○ | ○ | Ground (video input) | |
| 19 | ○ | ○ | Video output | 1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB) |
| 20 | ○ | – | Video input | 1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB) |
| | – | ○ | Video<br>Input/Y (S signal) | 1V ± 3dB, 75ohms, positive Sync : 0.3V (– 3, + 10dB) |
| 21 | ○ | ○ | Common ground (plug, shield) | |

○ Connected ●unconnected (open) * at 20Hz – 20kHz

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### CAUTION

**SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.**

### WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### ATTENTION

**APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.**

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

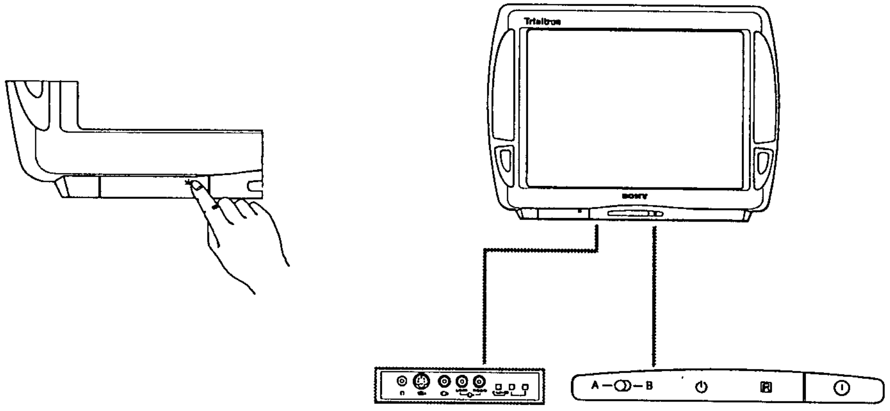
# SECTION 1
# GENERAL

**The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.**

## 1-1. OVERVIEW

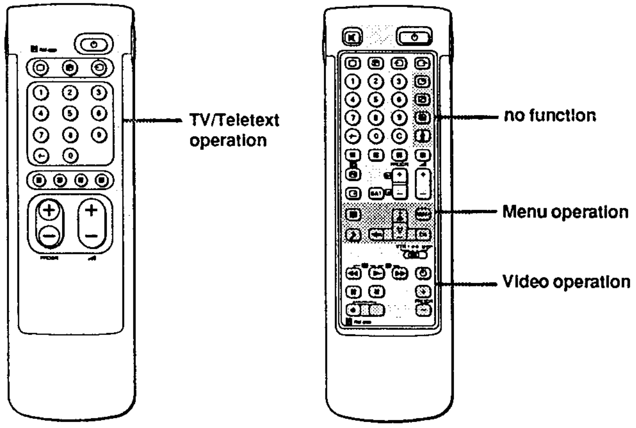
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

*TV set-front*



| Symbol | | Name | Refer to page |
|---|---|---|---|
| ⏼ | 4.6 | Main power switch | 13 |
| ⏻ | 4.7 | Standby indicator | 13 |
| A-◯◯-B | 4.8 | Stereo A/B indicators | 15 |
| ∩ | 4.9 | Headphones jack | 20 |
| →Ⓢ 3, →⊖ 3, →⊙ 3, | 4.10 | Input jacks (S video/video/audio) | 20 |
| P→⊿→⊖ | 4.11 | Function selector<br>(Programme/volume/input) | 14 |
| –/+ | 4.13 | Adjustment buttons for function selector | 14 |

*Remote Commander RM-830*



A)Note
The SAT button does not operate with this TV.

B) Simple side

C) Full-Function side

*TV/Teletext operation*

| Symbol | Name | Refer to page |
|---|---|---|
| 🔇 | Muting on/off button | 14 |
| ⏻ | Standby button | 13 |
| ▢ | TV power on/TV mode selector button | 13 |
| ⊜ | Teletext button | 14 |
| →⊖ | Input mode selector | 14 |
| ⊖→ | Output mode selector | 21 |
| 1,2,3,4,5,6,<br>7,8,9,and 0 | Number buttons | 13 |
| -/-- | Double-digit entering button | 13 |
| C | Direct channel entering button | 10 |
| ⊿+/– | Volume control button | 13 |
| PROGR+/– | Programme selectors | 13 |
| ⊞⊞ | Teletext page access buttons | 17 |
| ● | Picture adjustment button | 15 |
| ♪ | Sound adjustment button | 15 |
| ⊕ | On-screen display button | 14 |
| ⊜ | Teletext hold button | 17 |
| ◎ | Time display button | 14 |
| ■■■■ | Fastext TOP-text buttons | 17 |

*Menu operation*

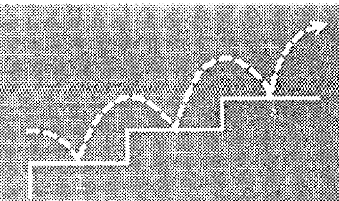
| Symbol | Name | Refer to page |
|---|---|---|
| MENU | Menu on/off button | 7 |
| △+/▽– | Select buttons | 7 |
| OK | OK (confirming) button | 7 |
| ← | Back button | 7 |

*Video operation*

| Symbol | Name | Refer to page |
|---|---|---|
| VTR1/2/3,<br>MDP | Video equipment selector | 22 |
| ◀ ▶ ▶▶<br>■ II ● ⏻<br>PROGR +/– | Video equipment operation buttons | 22 |

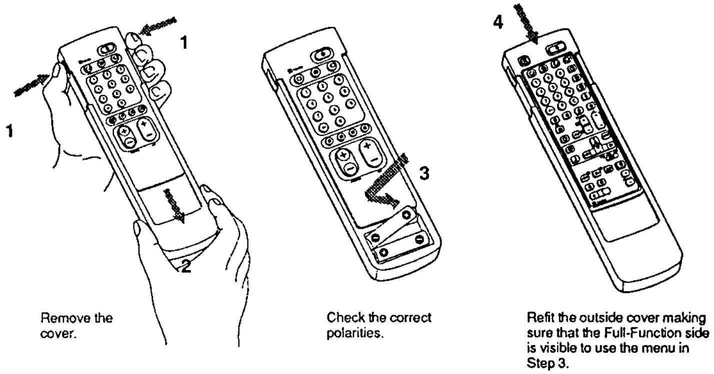
**Note:**
The buttons ◔ , ↑ ,⊕,⊜ do not operate with this TV.

# Getting Started



## 1-2. STEP 1 PREPARATION

### Insert the batteries into the Remote Commander



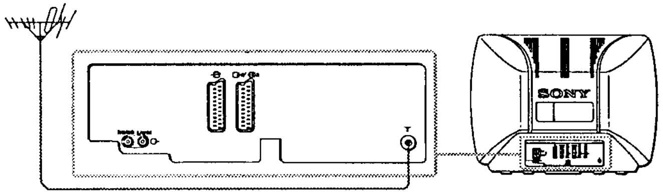
Remove the cover.

Check the correct polarities.

Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 3.

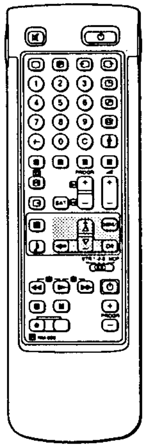
## 1-3. STEP 2 CONNECTION

### Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the Ƴ socket at the rear of the TV.
Make sure to use an aerial cable, which corresponds to the relevant regulations.

## 1-4. STEP 3 TUNING IN TO TV STATIONS

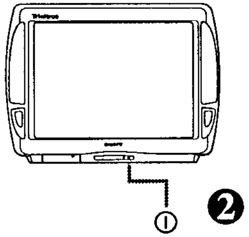


Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manuel method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

*Before you begin*

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

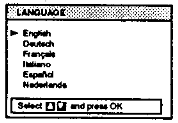


❶

### Choose a language

1 Depress ⏻ on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press ○ or a number button on the Remote Commander.
2 Press MENU.
The LANGUAGE menu appears (see Fig. 1).
3 Select the language you want with △+ or ▽– and press OK.

MENU



LANGUAGE

► English
Deutsch
Français
Italiano
Español
Nederlands

Select △ ▽ and press OK

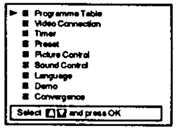
Fig. 1.

❷

### Display the Menu

1 Press the ⇐ button.
The main menu appears (see Fig.2).
Now, choose one of the following methods
**«Preset Channels automatically»**
or
**«Preset Channels manually».**

△ ▽ OK



► ■ Programme Table
■ Video Connection
■ Timer
■ Preset
■ Picture Control
■ Sound Control
■ Language
■ Demo
■ Convergence

Select △ ▽ and press OK

Fig. 2.

**To go back to main menu**
Keep pressing ⇐.

**To go back to the normal TV picture**
Press MENU.

**Note on the DEMO function**
If you choose »Demo« on the main menu, you can see a sequential demonstration on the menu functions. Press MENU to stop the function.

## Preset channels automatically

❸

With this method, you can preset all receivable channels at once.

**To stop automatic channel presetting**
Press ⬅ on the Remote Commander.

**Notes**

- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see »Using the Programme Table« on page 16.
- You can exchange the programme positions to have them appear on screen in the order you like. For details, see »Exchanging Programme Positions« on page 10.

1 Select »Preset« with △+ or ▽– and press OK.
The PRESET menu appears. (See Fig.3.)

2 Select »Auto Programme« with △+ or ▽– and press OK.
The AUTO PROGRAMME menu appears. (See Fig.4.)

3 Press OK.
Select if necessary the TV broadcast system (B/G for western European, D/K for eastern European countries) with △+ or ▽– and press OK. The first element of the »PROG« number will be highligted.

4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽– or the number buttons (e.g. For »04«, select »0« here) and press OK.
The second element of »PROG« will be highlighted.

5 Select the second element of the double-digit number with △+ or ▽– or the number buttons (e.g. For »04«, select »4« here) (See Fig. 5.) and press OK.

6 Select »C« or »S« with △+ or ▽– and press OK.
The automatic channel presetting starts.
When presetting is finished, the PRESET menu reappears.
All available channels are now stored on successive number buttons.

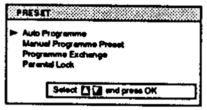
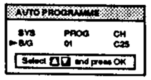
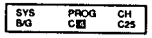


Fig. 3.



| SYS | PROG | CH |
|---|---|---|
| ►B/G | 01 | C25 |

Fig. 4.



| SYS | PROG | CH |
|---|---|---|
| B/G | C4 | C25 |

Fig. 5.

## Preset channels manually

❸

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

**If you have made a mistake**
Press ⬅ to go back to the previous position.
**To go back to main menu**
Keep pressing ⬅.
**To go back to the normal TV picture**
Press MENU.

1 Select »Preset« with △+ or ▽– and press OK.
The PRESET menu appears. (See Fig.6.)

2 Select »Manual Programme Preset« with △+ or ▽– and press OK.
The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

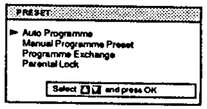
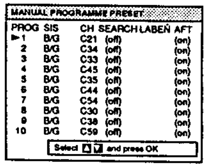


Fig. 6.



| PROG | SIS | CH | SEARCH | LABEŃ | AFT |
|---|---|---|---|---|---|
| ►1 | B/G | C21 | (off) | | (on) |
| 2 | B/G | C34 | (off) | | (on) |
| 3 | B/G | C33 | (off) | | (on) |
| 4 | B/G | C45 | (off) | | (on) |
| 5 | B/G | C35 | (off) | | (on) |
| 6 | B/G | C44 | (off) | | (on) |
| 7 | B/G | C54 | (off) | | (on) |
| 8 | B/G | C30 | (off) | | (on) |
| 9 | B/G | C38 | (off) | | (on) |
| 10 | B/G | C59 | (off) | | (on) |

Fig. 7.

**To tune in a channel by frequency**
After selecting F in step 6, enter three digits using the number buttons.

**If you have made a mistake**
Press ⬅ to go back to the previous position.

**To go back to main menu**
Keep pressing ⬅.

**To go back to the normal TV picture**
Press MENU.

3 Using △+ or ▽–, select the programme position (number button) to which you want to preset a channel, and press OK.

4 Select if necessary, the TV broadcast system (B/G for western European countries, D/K for eastern European countries) or a video input source (EXT) with △+ or ▽–.

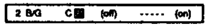
5 Then press OK. The CH position will be highlighted. (See Fig. 8.).

6 Using △+ or ▽–, select C (to preset a regular channel), or F (to tune in by frequency) and press OK.
The first element of the »CH« number will be highlighted.
If you have selected EXT in step 4, select the video input source with △+ or ▽–. (See Fig. 9).

There are two ways to preset channels. If you know the channel number, go to step »7-Manual«,
or
if you don't know the channel number, go to step »7-Search«.

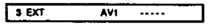
7 *Manual*
-a Select the first element of the »CH« number with △+ / ▽– or the number buttons and press OK.
The second element of the »CH« number will be highlighted.
-b Select the second element of the number with △+ / ▽– or the number buttons.
The selected number appears. (See Fig. 10.).
-c Press OK.
The »SEARCH« position is highlighted and the selected channel is noe stored. (See Fig. 11.).
-d Press OK until the cursor appears by the next programme position.
-e Repeat steps 3 to 7 to preset other channels.

7 *Search*
-a Press OK repeatedly until the colour of the SEARCH position changes.
-b Start searching for the channel with △+ (up) or ▽– (down).
The CH position changes colour. (See Fig. 12.).
The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13).
-c Press OK if you want to store this channel. If not, press △+ or ▽– to continue channel searching.
-d Press OK until the cursor appears by the next programme position.
-e Repeat steps 3 to 7 to preset other channels.



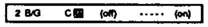
2 B/G C▮ (off) ----- (on)

Fig. 8.



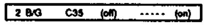
3 EXT AV1 -----

Fig. 9.



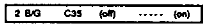
2 B/G C▮ (off) ----- (on)

Fig. 10.



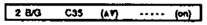
2 B/G C35 (off) ----- (on)

Fig. 11.



2 B/G C35 (off) ----- (on)

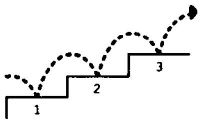
Fig. 12.



2 B/G C35 (▲▼) ----- (on)

Fig. 13.

# 1-5. ADDITIONAL PRESETTING FUNCTIONS

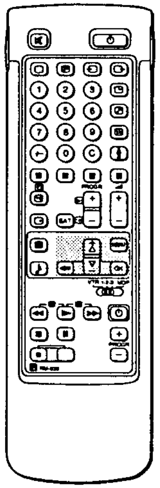


This section shows you additional presetting functions such as exchanging or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

### *Before you begin*

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

**PROGRAMME EXCHANGE**



## Exchanging Programme Positions

With this function, you can exchange the programme positions to a preferable order.

1 Press MENU to display the main menu.

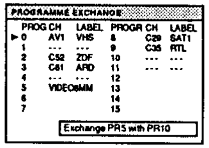
2 Select "Preset" with △+ or ▽– and press OK.
The PRESET menu appears.

3 Select "Programme Exchange" with △+ or ▽– and press OK.
The PROGRAMME EXCHANGE menu appears.(See Fig. 14.)

4 Using △+ or ▽–, select the programme position you want to exchange with another and press OK.
The colour of the selected position changes. (See Fig. 15.)

5 Using △+ or ▽–, select the programme position to be exchanged and press OK. Now the two programme positions have been exchanged. (See Fig. 16.)

6 Repeat steps 4 and 5 to exchange other programme positions.

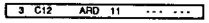


PROGRAMME EXCHANGE

| | PROG | CH | LABEL | PROGR | CH | LABEL |
|---|---|---|---|---|---|---|
| ▶ | 0 | AV1 | VHS | 8 | C29 | SAT1 |
| | 1 | --- | --- | 9 | C35 | RTL |
| | 2 | C52 | ZDF | 10 | --- | --- |
| | 3 | C61 | ARD | 11 | --- | --- |
| | 4 | --- | --- | 12 | | |
| | 5 | VIDEO8MM | | 13 | | |
| | 6 | | | 14 | | |
| | 7 | | | 15 | | |

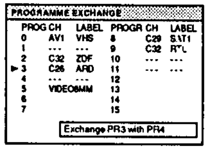
Exchange PR5 with PR10

Fig. 14.



3 C12 ARD 11 --- ---

Fig. 15.



PROGRAMME EXCHANGE

| | PROG | CH | LABEL | PROGR | CH | LABEL |
|---|---|---|---|---|---|---|
| | 0 | AV1 | VHS | 8 | C29 | SAT1 |
| | 1 | --- | --- | 9 | C32 | R"L |
| | 2 | C32 | ZDF | 10 | --- | --- |
| ▶ | 3 | C26 | ARD | 11 | --- | --- |
| | 4 | --- | --- | 12 | | |
| | 5 | VIDEO8MM | | 13 | | |
| | 6 | | | 14 | | |
| | 7 | | | 15 | | |

Exchange PR3 with PR4

Fig. 16.

**For programme positions beyond 15**
The display scrolls automatically.

**If you have made a mistake**
Press ⇐ to go back to the previous position

**To go back to main menu**
Keep pressing ⇐.

**To go back to the normal TV picture**
Press MENU.

## Tuning in a Channel Temporarily

Ⓒ

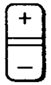
You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

1 Press C on the Remote Commander. For cable channels, press C twice.
The indication »C« ( »S« for cable channels) appears on the screen.

2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4).
The channel appears.
However, the channel will not be stored.

**MANUAL PROGRAMME PRESET**

## Skipping Programme Positions



You can skip unused programme positions when selecting programmes with the PROGR +/– buttons. However, the skipped programmes may still be called up when you use the number buttons.

1 Press MENU to display the main menu.

2 Select »Preset« with △+ or ▽– and press OK.
The PRESET menu appears.

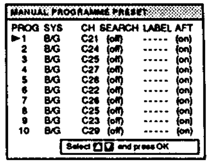
3 Select »Manual Programme Preset« with △+ or ▽– and press OK.
The MANUAL PROGRAMME PRESET menu appears. (See Fig.17.)

4 Using △+ or ▽–, select the programme position which you want to skip and press OK.
The »SYS« position changes colour.

5 Press △+ or ▽– until »-----« appears in the SYSTEM position. (See Fig. 18.)

6 Press OK. (See Fig. 19.)
When you select programmes using the PROGR+/– buttons, the programme position will be skipped.

7 Repeat steps 4 to 6 to skip other programme positions.

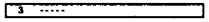


MANUAL PROGRAMME PRESET

| | PROG | SYS | CH | SEARCH | LABEL | AFT |
|---|---|---|---|---|---|---|
| ▶ | 1 | B/G | C21 | (off) | ----- | (on) |
| | 2 | B/G | C24 | (off) | ----- | (on) |
| | 3 | B/G | C25 | (off) | ----- | (on) |
| | 4 | B/G | C27 | (off) | ----- | (on) |
| | 5 | B/G | C28 | (off) | ----- | (on) |
| | 6 | B/G | C22 | (off) | ----- | (on) |
| | 7 | B/G | C26 | (off) | ----- | (on) |
| | 8 | B/G | C25 | (off) | ----- | (on) |
| | 9 | B/G | C23 | (off) | ----- | (on) |
| | 10 | B/G | C29 | (off) | ----- | (on) |

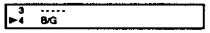
Select △ ▽ and press OK

Fig. 17.



3 -----

Fig. 18.



3 -----
▶4 B/G

Fig. 19.

**MANUAL PROGRAMME PRESET**

## Captioning a Station Name

You can »name« a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

1 Press MENU to display the main menu.

2 Select »Preset« with △+ or ▽– and press OK.
The PRESET menu appears.

3 Select »Manual Programme Preset« with △+ or ▽– and press OK.
The MANUAL PROGRAMME PRESET menu appears. (See Fig. 20.)

4 Using △+ or ▽–, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.

5 Select a letter or number with △+ or ▽– and press OK.
The next element will be highlighted.
Select other characters in the same way. If you want to leave an element blank, select – and press OK. (See Fig. 21.)

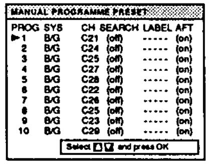
6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin).
Now the caption you chose is stored. (See Fig. 22.)

7 Repeat steps 5 and 6 to caption names for other channels.

**If you have made a mistake**
Press ⇐ to go back to the previous position.

**To go back to main menu**
Keep pressing ⇐.

**To go back to the normal TV picture**
Press MENU.

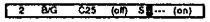


MANUAL PROGRAMME PRESET

| | PROG | SYS | CH | SEARCH | LABEL | AFT |
|---|---|---|---|---|---|---|
| ▶ | 1 | B/G | C21 | (off) | ----- | (on) |
| | 2 | B/G | C24 | (off) | ----- | (on) |
| | 3 | B/G | C25 | (off) | ----- | (on) |
| | 4 | B/G | C27 | (off) | ----- | (on) |
| | 5 | B/G | C28 | (off) | ----- | (on) |
| | 6 | B/G | C22 | (off) | ----- | (on) |
| | 7 | B/G | C26 | (off) | ----- | (on) |
| | 8 | B/G | C25 | (off) | ----- | (on) |
| | 9 | B/G | C23 | (off) | ----- | (on) |
| | 10 | B/G | C29 | (off) | ----- | (on) |

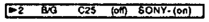
Select △ ▽ and press OK

Fig. 20.



2 B/G C25 (off) S▮--- (on)

Fig. 21.



▶2 B/G C25 (off) SONY- (on)

Fig. 22.

**MANUAL PROGRAMME PRESET**

## Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

1 Press MENU to display the main menu.

2 Select »Preset« with △+ or ▽– and press OK.
The PRESET menu appears.

3 Select »Manual Programme Preset« with △+ or ▽– and press OK.
The MANUAL PROGRAMME PRESET menu appears. (See Fig. 23.)

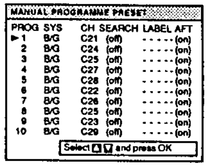
4 Using △+ or ▽–, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.

5 Fine-tune the channel with △+ or ▽– so that you get the best TV reception. As you press the cursor buttons, the frequency changes from – 15 to + 15. (See Fig. 24.)

6 After fine tuning, press OK.
The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.

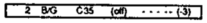
7 Repeat steps 4 to 6 to fine-tune other channels.

**To reactivate AFT (automatic fine tuning).**
Repeat from the beginning and select »ON« in step 5.



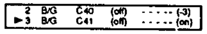
```
MANUAL PROGRAMME PRESET
PROG  SYS   CH   SEARCH  LABEL AFT
►1    B/G   C21  (off)   -----(on)
 2    B/G   C24  (off)   -----(on)
 3    B/G   C25  (off)   -----(on)
 4    B/G   C27  (off)   -----(on)
 5    B/G   C28  (off)   -----(on)
 6    B/G   C22  (off)   -----(on)
 7    B/G   C26  (off)   -----(on)
 8    B/G   C25  (off)   -----(on)
 9    B/G   C23  (off)   -----(on)
10    B/G   C29  (off)   -----(on)
             Select △ ▽ and press OK
```

Fig. 23.



```
 2   B/G   C35   (off)   ------ (-3)
```

Fig. 24.



```
 2   B/G   C40   (off)   ------ (-3)
►3   B/G   C41   (off)   ------ (on)
```

Fig. 25.

**PARENTAL LOCK**

## Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Press MENU to display the main menu.

2 Select "Preset" with △+ or ▽– and press OK.
The PRESET menu appears.

3 Select "Parental Lock" with △+ or ▽– and press OK.
The PARENTAL LOCK menu appears. (See Fig. 26.)

4 Using △+ or ▽–, select the programme position you want to block and press OK.
The CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.)

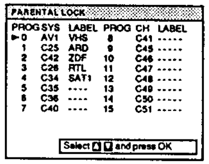
5 Repeat step 4 to block other programme positions.

### *Cancelling blocking*

1 On the PARENTAL LOCK menu, select the programme position you want to unblock with △+ or ▽–.

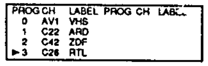
2 Press OK.
The CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

**If you try to select a programme that has been blocked**
The message »LOCKED« appears on the blank TV screen.



```
PARENTAL LOCK
PROG SYS  LABEL  PROG  CH   LABEL
►0   AV1  VHS     8    C41  -----
 1   C25  ARD     9    C45  -----
 2   C42  ZDF    10    C46  -----
 3   C26  RTL    11    C47  -----
 4   C34  SAT1   12    C48  -----
 5   C35  ----   13    C49  -----
 6   C36  ----   14    C50  -----
 7   C40  ----   15    C51  -----
             Select △ ▽ and press OK
```

Fig. 26.



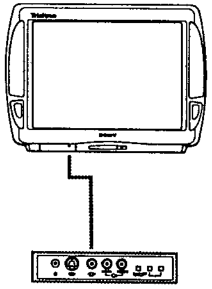
```
PROG CH   LABEL  PROG  CH   LABEL
 0   AV1  VHS
 1   C22  ARD
 2   C42  ZDF
►3   C26  RTL
```

Fig. 27.

## Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press the P→⊿→⇥ button repeatedly until the programme number, ⊿ (for volume), or ⇥ (for video input picture) appears. Then adjust with the –/+ buttons.
- Press –/+ buttons to switch on the TV from the standby mode.
- Press –/+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).



## Watching Teletext or Video Input

### *Watching teletext*

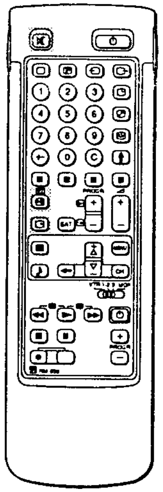
For details of the teletext operation, refer to page 17.

- Press ⊜ to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext or TOP-Text operation.
- Press ⊕ (PAGE + ) or ⊖ (PAGE – ) for the next or preceeding page.
- To go back to the normal TV picture, press ○ .

### *Watching a video input picture*

For details of the video input picture, refer to page 21.

Press ⇥ repeatedly until the desired video input appears. To go back to the normal TV picture, press ○.



## More Convenient Functions

Use the Full-Function side of the Remote Commander.

### *Displaying the on screen indications*

- Press ⊙ once to display all the indications. They will disappear after some seconds.
- Press ⊙ twice to have the programme number and label stay on screen. Press twice again to make the indications disappear.

### *Muting the sound*

Press 🔇.
To resume normal sound, press 🔇 again.

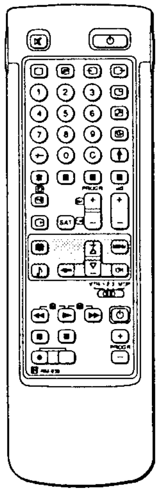
### *Displaying the time*

Press ◎. This function is available only when teletext is broadcast.
To make the time display disappear, press ◎ again.

## 1-6. ADJUSTING AND SETTING THE TV USING THE MENU

PICTURE CONTROL

SOUND CONTROL



**If you have made a mistake**
Press ⇐ to go back to the previous position.

**To go back to the main menu**
Keep pressing ⇐.

**To go back to the normal TV picture**
Press MENU.

**Note**
HUE is only available for NTSC colour systems and RESOLUTION does not work for SECAM colour system.

**Note on LINE OUT**
The audio level and the dual sound mode output from the ⊖• jack on the rear correspond to the Headphone VOLUME and DUAL SOUND settings.

**When watching a video input picture**
*You can select* DUAL SOUND to change the sound.

## Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect or set the resolution to obtain a higher quality picture. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones.

1 Press ● (for picture) or ♪ (for sound) on the remote Commander.

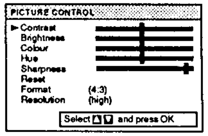
or

Press MENU and select »Picture Control« or »Sound Control«, then press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29.)

2 Using △+ or ▽−, select the item you want to adjust and press OK.
The selected item changes colour. (See Fig. 30.)

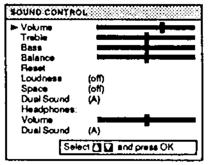
3 Adjust the setting with △+ or ▽− and press OK.
The cursor appears beside the next item (at the left margin). (See Fig. 31.)
For the effect of each control, see the table below.

4 Repeat steps 2 and 3 to adjust other items.



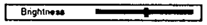
PICTURE CONTROL
► Contrast
Brightness
Colour
Hue
Sharpness
Reset
Format (4:3)
Resolution (high)
Select △ ▽ and press OK

Fig. 28.



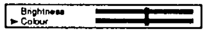
SOUND CONTROL
► Volume
Treble
Bass
Balance
Reset
Loudness (off)
Space (off)
Dual Sound (A)
Headphones:
Volume
Dual Sound (A)
Select △ ▽ and press OK

Fig. 29.



Brightness

Fig. 30.



Brightness
► Colour

Fig. 31.

### *Effect of each control*

| PICTURE CONTROL | Effect | |
|---|---|---|
| Contrast | Less ——I—— More | |
| Brightness | Darker ——I—— Brighter | |
| Colour | Less ——I—— More | |
| Hue | Greenish ——I—— Reddish | |
| Sharpness | Softer ——I—— Sharper | |
| Reset | Resets picture to the factory preset levels. | |
| Format | 4 : 3 : Normal | 16 : 9 : Wide screen effect |
| Resolution | Normal | high : Obtain a higher quality picture |

| SOUND CONTROL | Effect | |
|---|---|---|
| Volume | Less —I— More | |
| Treble | Less —I— More | |
| Bass | Less —I— More | |
| Balance | More left —I— More right | |
| Reset | Resets sound to the factory preset levels. | |
| Loudness | off: Normal | on: When listening to low volume sound. |
| Space | off: Normal | on: Obtain acoustic sound effect. |
| Dual Sound | A: left channel | B: right: channel Stereo mono |
| | The selected mode of the A-CD-B Indicator on the TV lights up (for NICAM broadcasts see next page) | |
| *Headphones :* | | |
| Volume | Less —I— More | |
| Dual Sound | A: left channel | B: right channel stereo mono |

### *Selecting Nicam Broadcasts**

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received »NICAM« appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-CD-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 16.

| Service Being Broadcast | Action | Effect | Indication on the TV A-CD-B |
|---|---|---|---|
| Stereo | Press<br>△+ or ▽− | Stereo Nicam<br>(Mono 2-Channel)<br>mono | ✹ ✹<br><br>▭ ▭ |
| Press △+ or ▽− again to return to stereo Nicam (mono 2-channel) | | | |
| Bilingual | Press<br>△+ or ▽− | Channel A Nicam<br>Channel B Nicam<br>mono | ✹ ▭<br>▭ ✹<br>▭ ▭ |
| Press △+ or ▽− again to return to channel A Nicam | | | |

* Depending on availability of service.

PROGRAMME TABLE

**To go back to the normal TV picture'**
Press MENU.

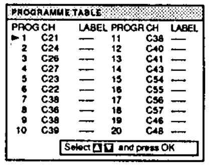
## Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select »Programme Table« with △+ or ▽− and press OK.
The PROGRAMME TABLE menu appears. (See Fig. 32.)

To scroll to higher programme numbers, press △ −.

**To select a programme using this menu**
Select the programme number with △+ or ▽− and press OK.
The selected programme appears.



PROGRAMME TABLE

| PROG | CH | LABEL | PROGR | CH | LABEL |
|---|---|---|---|---|---|
| ► 1 | C21 | — | 11 | C38 | — |
| 2 | C24 | — | 12 | C40 | — |
| 3 | C26 | — | 13 | C41 | — |
| 4 | C27 | — | 14 | C43 | — |
| 5 | C23 | — | 15 | C54 | — |
| 6 | C22 | — | 16 | C55 | — |
| 7 | C38 | — | 17 | C56 | — |
| 8 | C36 | — | 18 | C57 | — |
| 9 | C38 | — | 19 | C46 | — |
| 10 | C39 | — | 20 | C48 | — |

Select △ ▽ and press OK

Fig. 32.

TIMER

**To switch off the timer**
Select »OFF« in step 3.

**To check the remaining time**
Press ⊙.

## Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

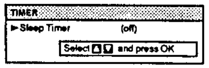
1 From the main menu, select »Timer« with △+ or ▽− and press OK.
The TIMER menu appears. (See Fig. 33.)

2 Press OK.
The time period option changes colour.

3 Select the time period with △+ or ▽−.
The time period (in minutes) changes as follows:

10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90
↑———————— OFF ————————┘

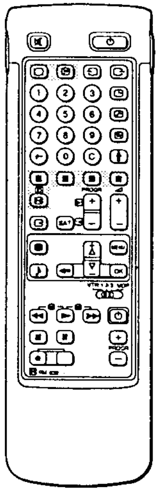
4 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.



TIMER
► Sleep Timer (off)
Select △ ▽ and press OK

Fig. 33.

## 1-7. TELETEXT



**Note**
Teletext errors may occur if the broadcasting signals are weak.

**With the simple side of the Remote Commander**
You can switch teletext on and off, operate Fastext, and directly select page numbers.

**Note**
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

*TV stations broadcast an information service called Teletext via* the TV channels.Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

## Direct Access Functions

### *Switching Teletext on and off*

1 Select the TV channel which carries the teletext broadcast you want to watch.

2 Press ⊜ to switch on teletext.
A teletext page will be displayed (usually the index page).
If there is no teletext broadcast, »No text available« is displayed on the information line at the top of the screen.

**To switch teletext off**

Press ○.

### *Selecting a teletext page*

**With direct page selection**

Use the number buttons to input the three digits of the chosen page number.
If you have made a mistake, type in any three digits. Then re-enter the correct page number.

**With page-catching**

1 Select a teletext page with a page overview (e.g. index page).

2 Press ⊕ twice. »Page catching« will be displayed on the information line. The last digit of the first displayed page number flashes.

3 Using △+ or ▽–, select the desired page and press OK.
The requested page will appear in a few seconds.

**Accessing next or preceding page**

Press ⊖ (PAGE+) or ⊖ (PAGE-).
The next or preceding page appears.

### *Superimposing the teletext display on the TV programme*

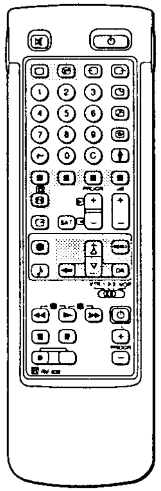
- Press ⊜ once in teletext mode or twice in TV mode.
- Press ⊜ again to resume normal teletext reception.

### *Preventing a teletext page from being updated*

- Press ⊕ (HOLD). The HOLD symbol "⊕" is displayed on the information line.
- Press ⊜ to resume normal teletext reception.

### *Using Fastext*

With Fastext you can access pages with one key stroke.
When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.
Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.



**Note**
Some of the features may not be available depending on the Teletext service.

**Note on SUBTITLES**
If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

**To cancel the request**
Select »OFF« for the TIME PAGE setting.

## Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched in, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 34.)

2 Using △+ or ▽–, select the teletext function you want and press OK. (See Fig. 35.)

### *USER PAGES/PRESET USER PAGES*

See page 19 for information about presetting and operating the user pages.

### *INDEX*

The index will give you an overview of the contents of the teletext and the page numbers.

### *TOP/BOTTOM/FULL*

For convenient reading of a teletext page, you can enlarge the teletext display. After having selected the function, an information line TOP/BOTTON/FULL will be displayed. (See Fig. 36.)

Press △+ for »Top« to enlarge the uper half, ▽– for »Bottom« to enlarge the lower one and OK for »Full« to resume the normal size.

Press ⊜ to resume normal teletext reception.

### *TEXT CLEAR*

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be displayed. (See Fig. 37.)

Press ⊜ to resume normal teletext reception.

### *SUBTITLES*

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

### *REVEAL*

Sometimes Pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line »REVEAL ON/OFF« will be displayed. (See Fig. 38.)

Using △+ or ▽–, select ON to reveal the information of OFF to conceal it again.

Press ⊜ to resume normal teletext reception.

### *TIME PAGE*

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

1 Press OK. Using △+ or ▽–, select ON and press OK. The TV programme you were watching before you selected TIME PAGE is restored. An information window will be displayed at the bottom of the page.

2 To select the desired page, enter three digits for the page number (e.g. 301) using the number buttons.

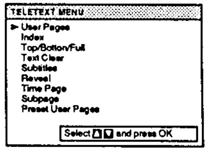


Fig. 34.

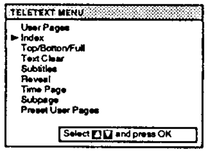


Fig. 35.

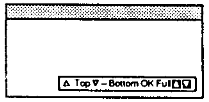


Fig. 36.

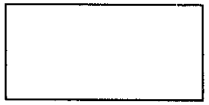


Fig. 37.

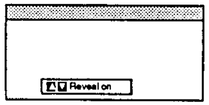


Fig. 38.

3 To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons. The selected time is displayed at the top in the left-handed corner. At the requested time, the page will be displayed.

**To cancel the request**
Select »Subpage« and press OK.

Press ⊜ to resume normal teletext mode.

### *SUBPAGE*

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR +/– or the number buttons (e.g. enter 0002 for the second page of a sequence).

**If two broadcasting stations use the same Teletext**
You can preset one bank to 2 different programme positions.

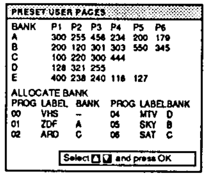
## User Page Bank System

You can store up to 30 pages in the »Teletext page bank system«. In this way you have quick access to the pages you watch frequently.

### *Storing pages*

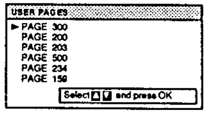
There are 5 »banks« (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

1 Press ⊜ (if Teletext is not on already) and MENU to show the TELETEXT MENU display.
2 Select PRESET USER PAGES with △+ or ▽– and press OK.
3 Select the desired bank with △+ or ▽– and press OK. The cursor will go to the first position (P1) of the preferred pages.
4 Input the three digits of your first preferred page with the number buttons.
The cursor will go to the second position.
5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number.
6 Select »Allocate Bank« with △+ or ▽– and press OK.
7 Select the programme position for which you have preset pages with △+ or ▽– and press OK. (See Fig. 39.).
8 Select the desired bank with △+ or ▽– (Banks A to E are available) and press OK.
9 Repeat steps 3 to 8 for the other 4 banks available.



```
PRESET USER PAGES
BANK   P1  P2  P3  P4  P5  P6
A      300 255 458 234 200 179
B      200 120 301 303 550 345
C      100 220 300 444
D      128 321 255
E      400 238 240 118 127
ALLOCATE BANK
PROG LABEL BANK   PROG LABELBANK
00   VHS   –      04   MTV  D
01   ZDF   A      05   SKY  B
02   ARD   C      06   SAT  C
            Select △ ▽ and press OK
```

Fig. 39.



```
USER PAGES
► PAGE 300
  PAGE 200
  PAGE 203
  PAGE 500
  PAGE 234
  PAGE 159
            Select △ ▽ and press OK
```

Fig. 40.

### *Displaying User Pages.*

1 Select MENU.
2 Select USER PAGES with △+ or ▽– and press OK.
A table of the stored preferred pages will be displayed. (See Fig. 40.)
3 Select the desired page with △+ or ▽– and press OK. The page will be displayed after some seconds.

# 1-8. CONNECTING AND OPERATING OPTIONAL EQUIPMENT

## Connecting Optional Equipment

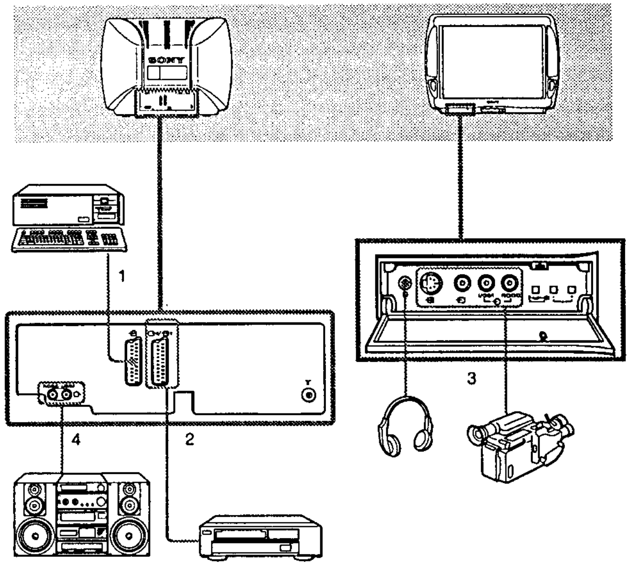
You can connect optional audio-video equipment to this TV such as a VTRs, video disc player, and stereo system.

**To connect a VTR using the ⊤ terminal**
Connect the serial output of the VTR to the aerial terminal ⊤ of the TV.
We recommend that you tune in the video signal to programme number »0«. For details see »Preset channels manually« on page 8.

**If the picture or the sound is distorted**
Move the VTR away from the TV.

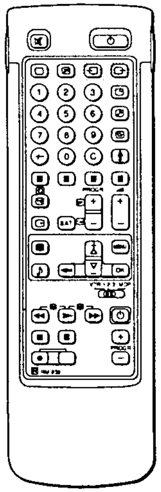
**S video Input(Y/C Input)**
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.
Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance).
This TV is equipped with 2 S Video input jacks through which these separated signals can be input directly.

**When connecting a monaural VTR**
Connect only the white -⊙ jack to both the TV and VTR.



| Acceptable input signal | Available output signal |
|---|---|
| 1 Normal audio/video and RGB signal | Video/audio from TV tuner |
| 2 Normal audio/video and S video signal | Video/audio from selected source |
| 3 Normal audio/video and S video signal | No outputs |
| 4 No inputs | Audio signal (variable) |

**Selecting input with PROGR +/– or number buttons**
You can preset video input sources to the programme positions so that you can select them with PROGR +/– or number buttons. For details, see "Preset channels manually" on page 8.



# Selecting input and output

This section explains how to view the video input picture (of a video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

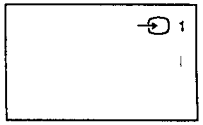
## *Selecting input*

Press -⊙ repeatedly to select the input source.

The symbol of the selected input source will appear.

**To go back to the normal TV picture**

Press ◯.



## *Input modes*

| Symbol | Input signal |
|---|---|
| -⊙ 1 | Audio/video input through the -⊚ 1 connector |
| -⊚ | RGB input through the -⊚ 1 connector |
| -⊙ 2 | Audio/video input through the ⊙→ 2/ -Ⓢ 2 connector |
| -Ⓢ 2 | S video input through the ⊙→ 2/ -Ⓢ 2 connector |
| -⊙ 3 | Audio/video input through -⊙ 3 and -⊙ 3 on the front |
| -Ⓢ 3 | S video input through the -Ⓢ 3 connectors on the front (4-pin connector) |

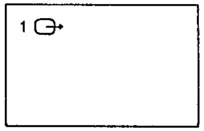
You can also select the input mode using the P→⊿→-⊙ and –/+ buttons on the TV. In this case, first select -⊙, and then press –/+ buttons to select the input.

## *Selecting the output*

The ⊙→ 2 /-Ⓢ 2 connector outputs the source input from the other connectors.

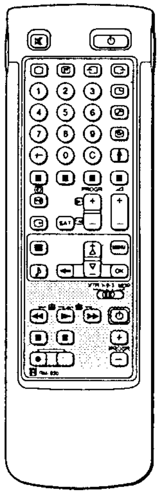
Press ⊙→ repeatedly to select the output.

The symbol of the selected output source appears.



## *Output modes*

| Symbol | ⊙→ 2/ -Ⓢ 2 connector outputs |
|---|---|
| 1 ⊙→ | The audio/video signal from the -⊚ 1 connector |
| 2 ⊙→ | The audio/video signal from the ⊙→2/ -Ⓢ connector |
| 2 Ⓢ→ | The audio/S video signal from the ⊙→2/ or -Ⓢ 2 connector |
| 3 ⊙→ | The audio/video signal from the -⊙ 3 and -⊙3 connectors |
| 3 Ⓢ→ | The audio/S video signal from the -Ⓢ 3 and -⊙ 3 connectors |
| TV⊙→ | The audio/video signal from the ⊤ aerial terminal |



**When recording**
when you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

### *Checking and selecting the input and output sources using the menu*

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

1 Select »Video Connection« with △+ or ▽– and press OK. The VIDEO CONNECTION menu appears. (See Fig. 41.)
You can see which source is selected for the TV input and for the output. If you want to select the input and output on this menu, go on to the next step.

2 Select TV screen (input source for the TV screen), or Output (output source) with △+ or ▽– and press OK. One of the source items changes colour. (See Fig. 42.)

3 Select the desired source with △+ or ▽–. (See Fig. 43.)
For details about each source, see the table on page 21.

4 Press OK.
The selected source is confirmed, and the cursor appears. (See Fig. 44.)

5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

# Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8 mm or VHS VTRs or video disc players.

**Tuning the Remote Commander to Sony equipment**

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR
VTR 2: 8 mm VTR
VTR 3: VHS VTR
MDP : Video disc player

2 Use the buttons indicated in the Illustration to operate the additional equipment.
If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

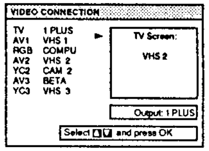


Fig. 41.

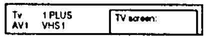


Fig. 42.

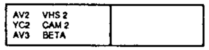


Fig. 43.

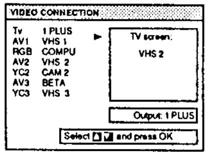
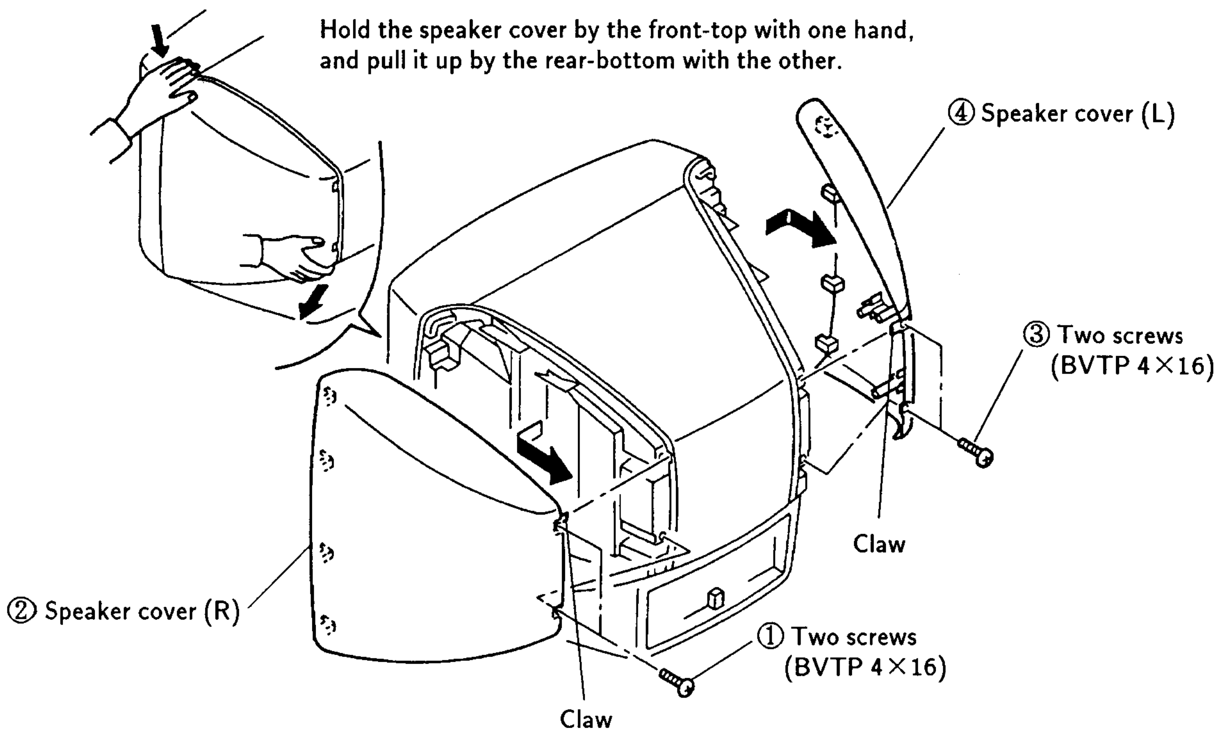


Fig. 44.

# SECTION 2
# DISASSEMBLY

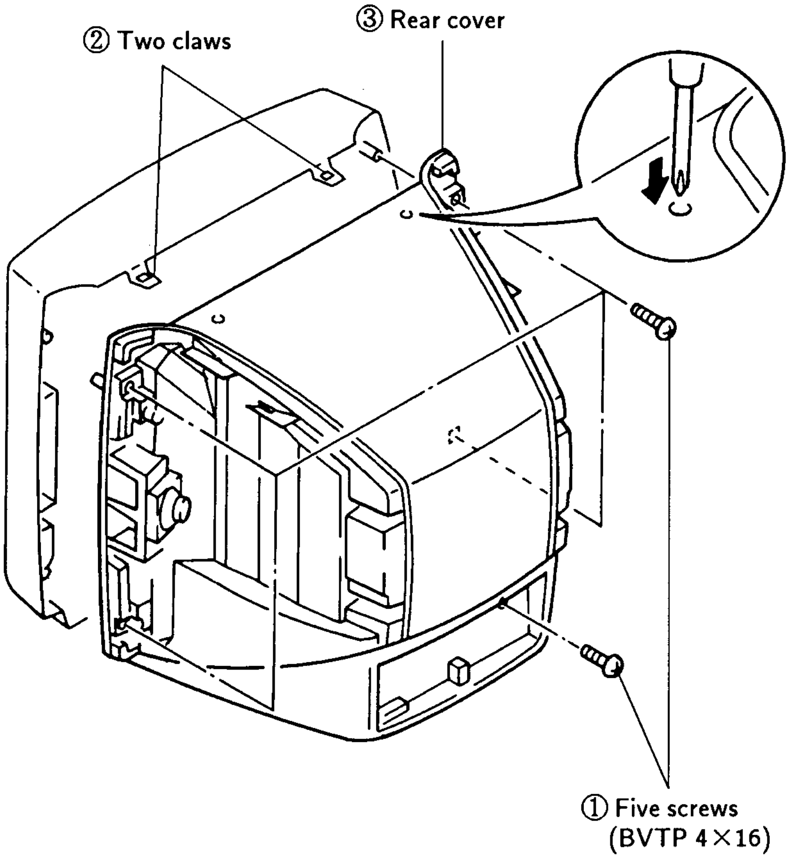
## 2-1. SPEAKER COVER REMOVAL



Hold the speaker cover by the front-top with one hand, and pull it up by the rear-bottom with the other.

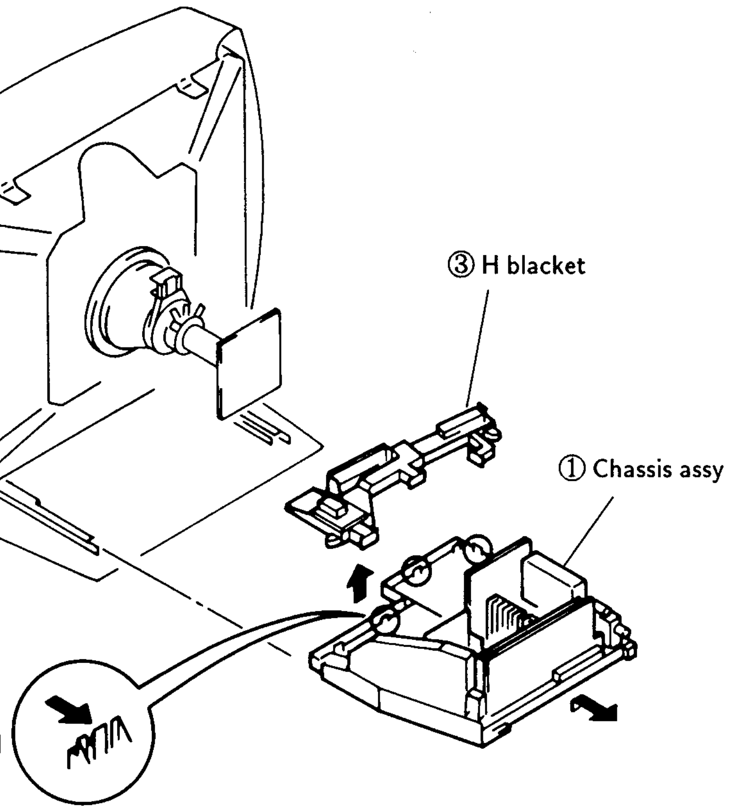
④ Speaker cover (L)
③ Two screws
(BVTP 4×16)
Claw
② Speaker cover (R)
① Two screws
(BVTP 4×16)
Claw

## 2-2. REAR COVER REMOVAL



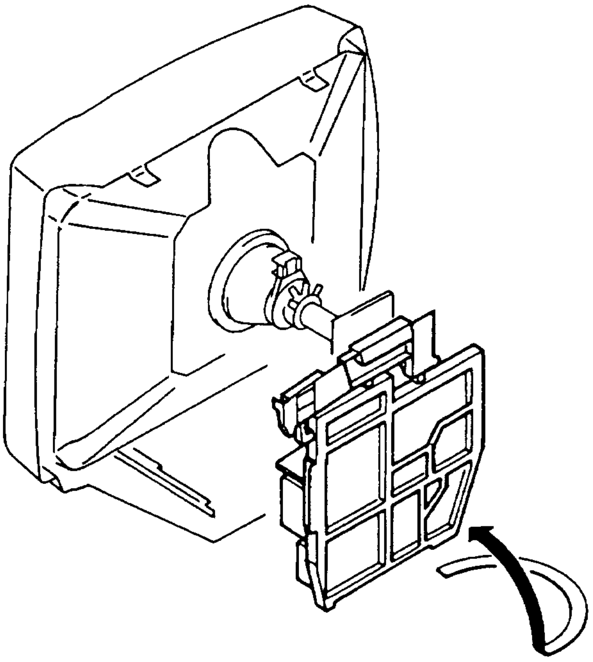
② Two claws
③ Rear cover
① Five screws
(BVTP 4×16)

## 2-3. CHASSIS ASSY REMOVAL



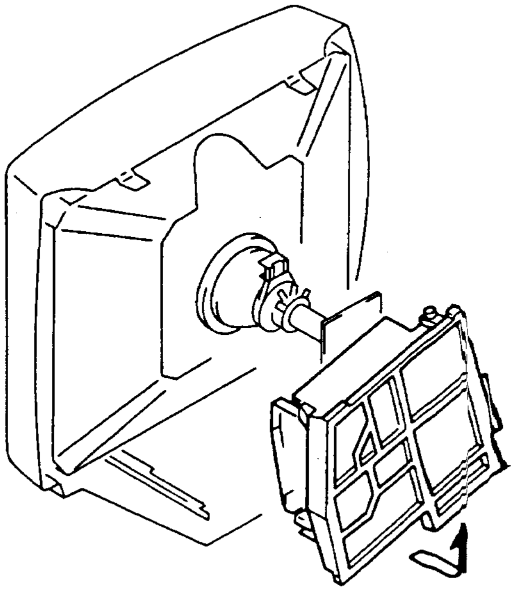
② Push the three claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

## 2-4. SERVICE POSITION (1)

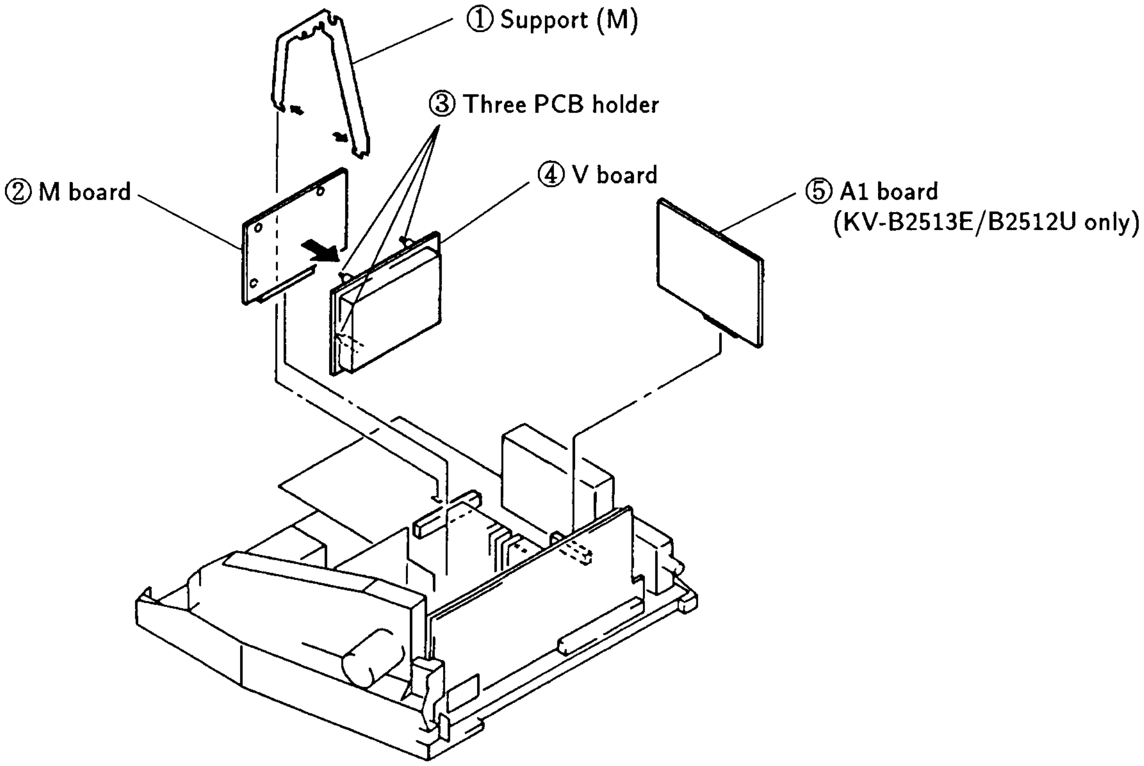


## SERVICE POSITION (2)

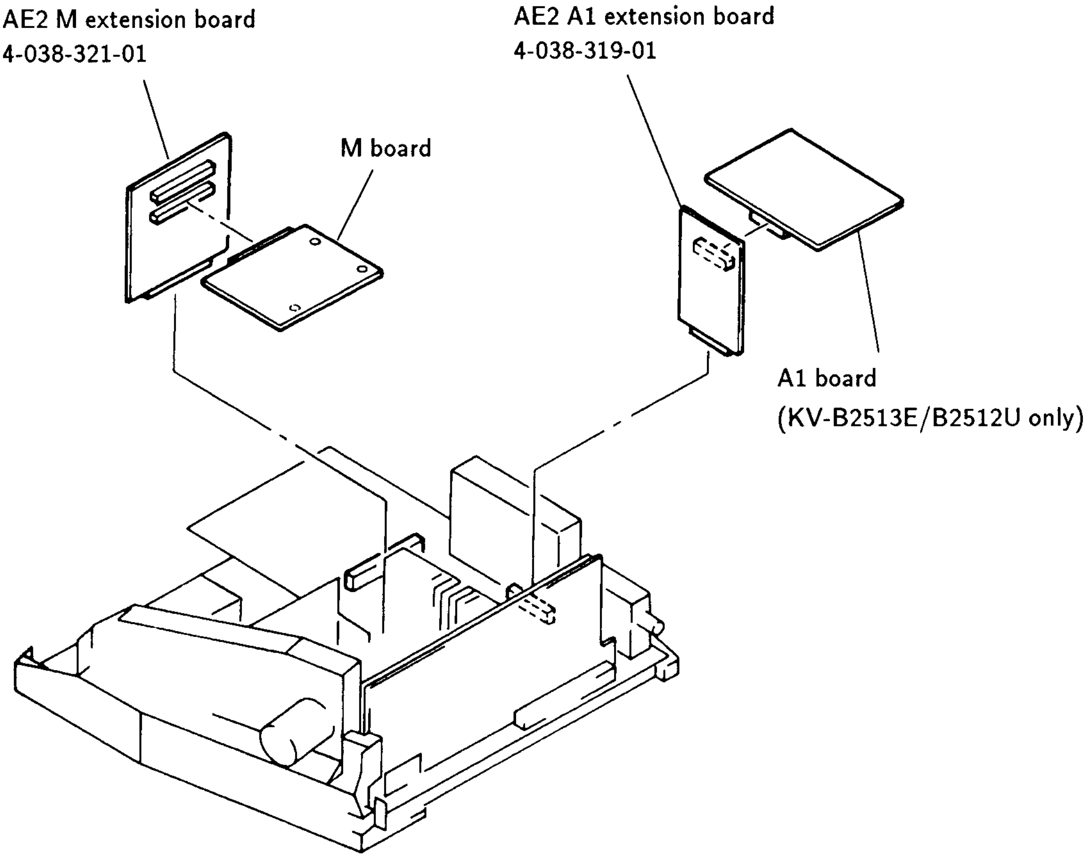
※ Remove the H bracket from the chassis assy and then perform the following servicing.
(Refer to 2-3. CHASSIS ASSY REMOVAL)



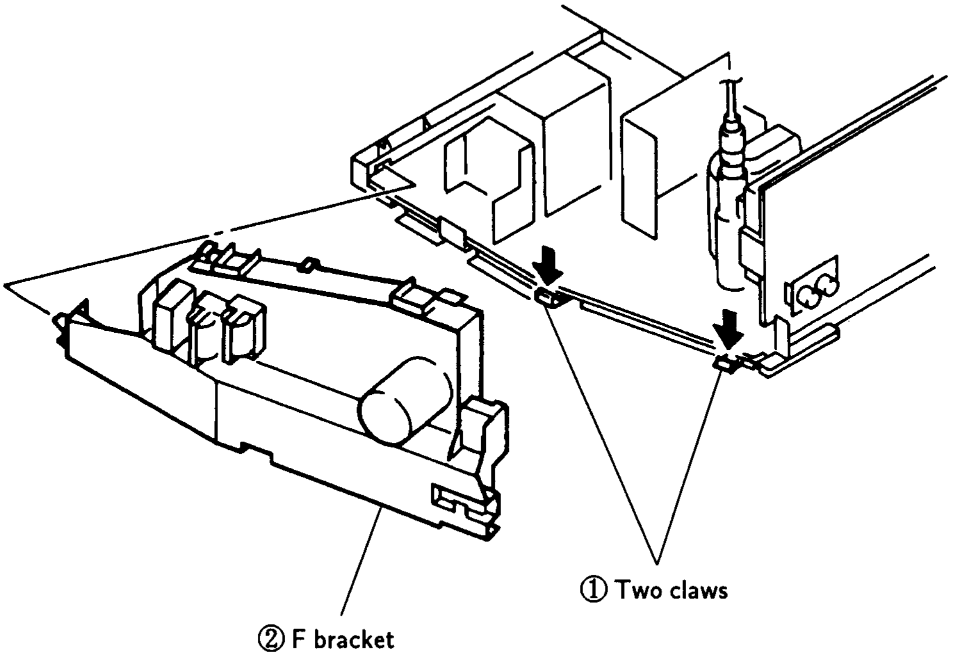
## 2-5. M, V AND A 1 BOARDS REMOVAL


① Support (M)
③ Three PCB holder
② M board
④ V board
⑤ A1 board
(KV-B2513E/B2512U only)

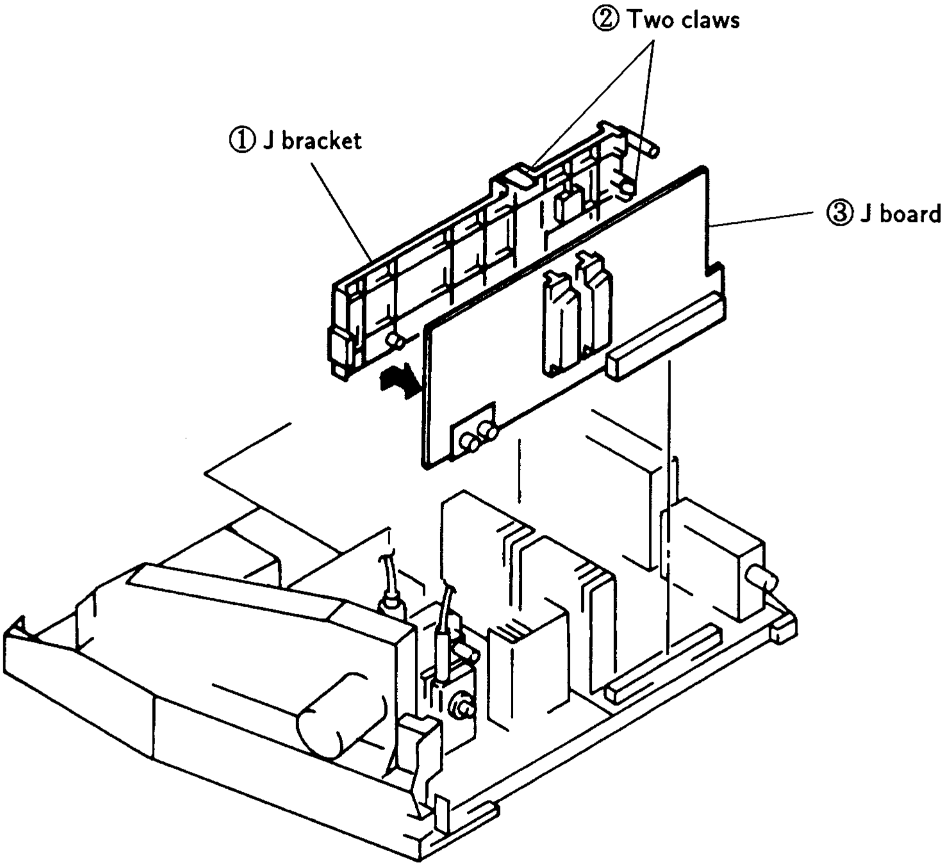
## 2-6. EXTENSION BOARD


AE2 M extension board
4-038-321-01
AE2 A1 extension board
4-038-319-01
M board
A1 board
(KV-B2513E/B2512U only)

## 2-7. F BRACKET REMOVAL

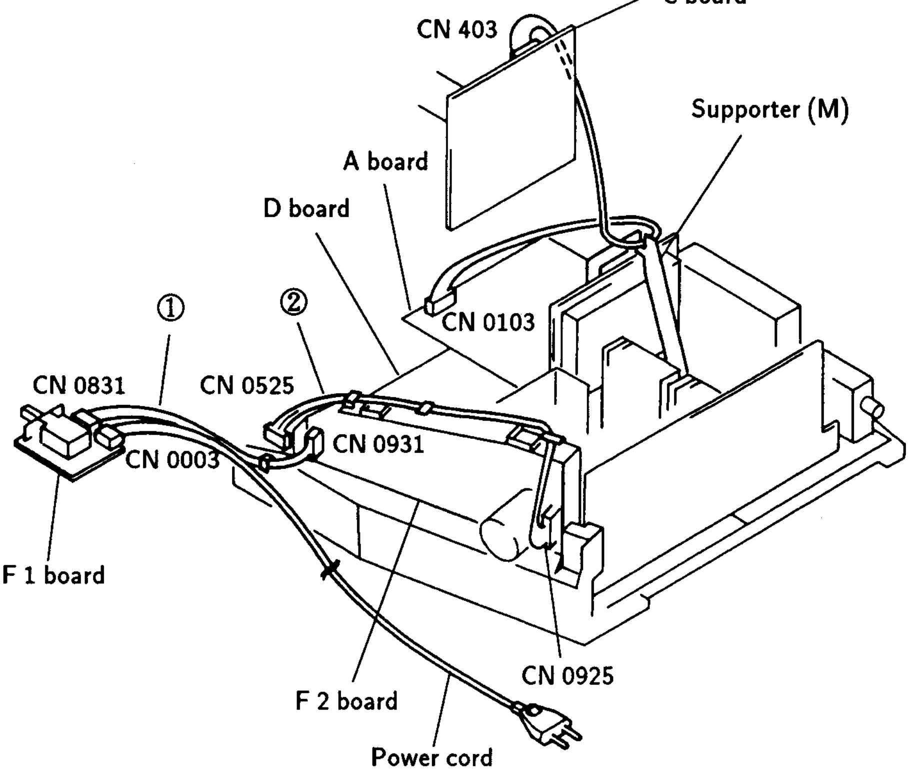

① Two claws
② F bracket

## 2-8. J BOARD REMOVAL

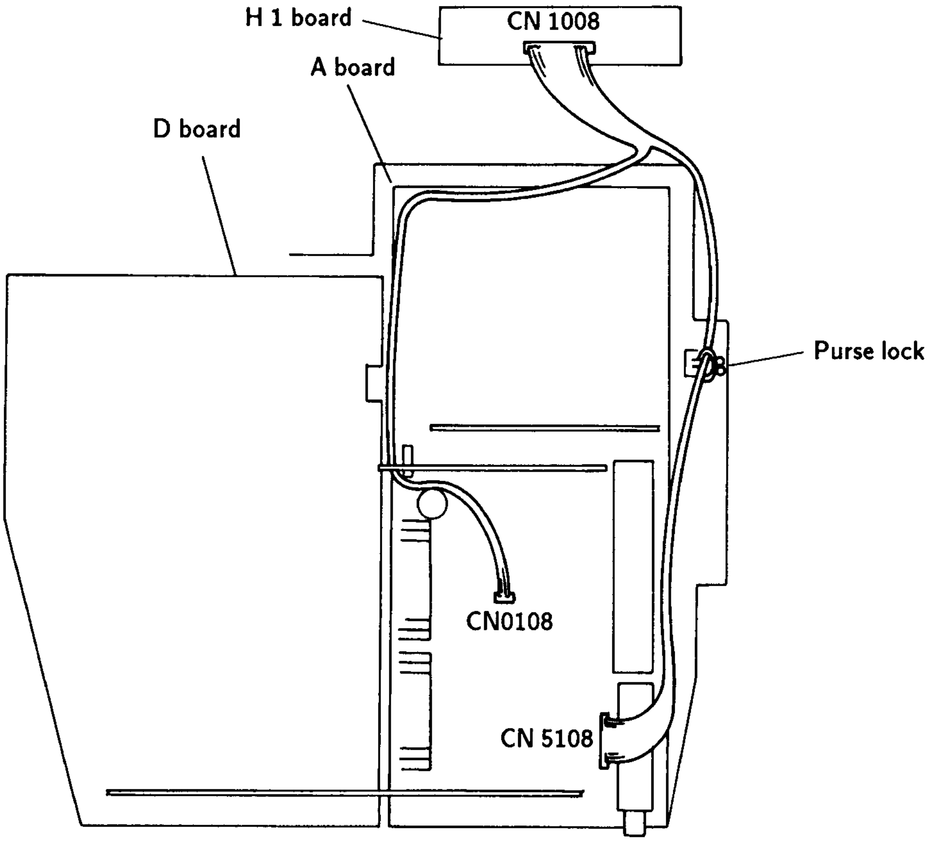

② Two claws
① J bracket
③ J board

### 2-9-1. WIRE ROD

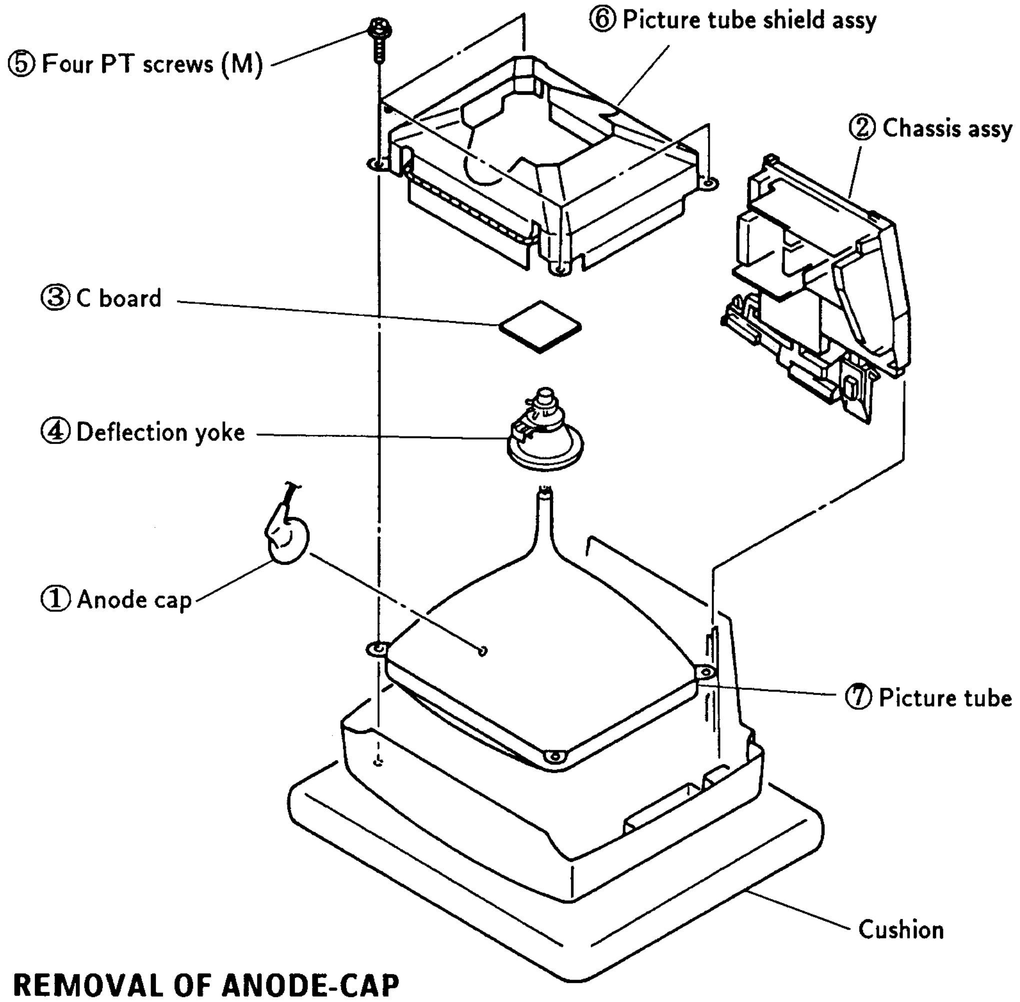
※ Keep distance between ① and ②


C board
CN 403
Supporter (M)
A board
D board
CN 0103
①
②
CN 0831
CN 0525
CN 0931
CN 0003
F 1 board
CN 0925
F 2 board
Power cord

### 2-9-2. WIRE ROD


H 1 board
CN 1008
A board
D board
Purse lock
CN0108
CN 5108

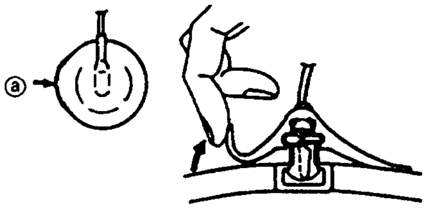
## 2-10. PICTURE TUBE REMOVAL


⑥ Picture tube shield assy
⑤ Four PT screws (M)
② Chassis assy
③ C board
④ Deflection yoke
① Anode cap
⑦ Picture tube
Cushion

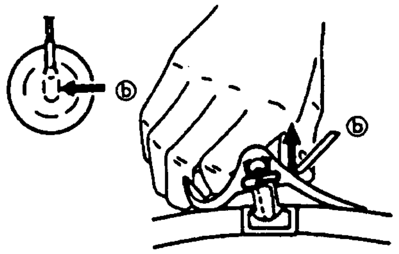
### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

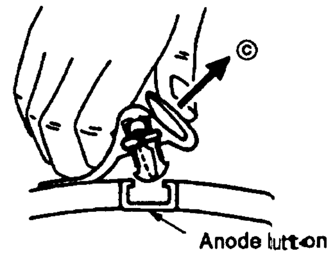
### • REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.


ⓒ
Anode button

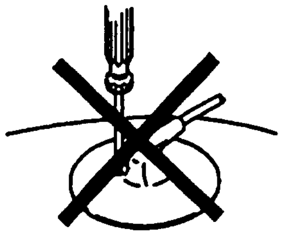
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

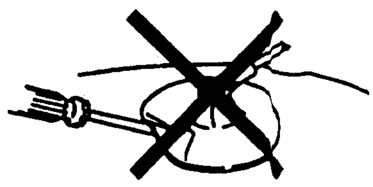
### • HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





# SECTION 3
# SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :

◑ Contrast ........................ 80% (or remote control normal)
☼ Brightness ........................ 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

**Note**: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

---

**Preparations :**

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast }
   Brightness } normal
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

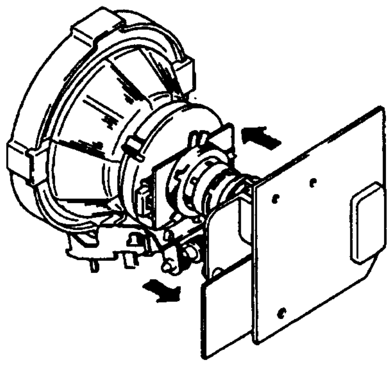


Fig.3-1

Fig.3-2

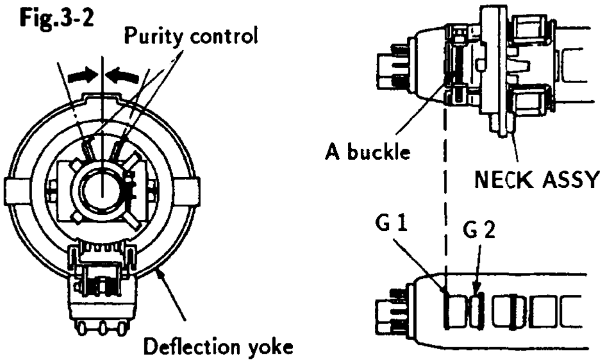
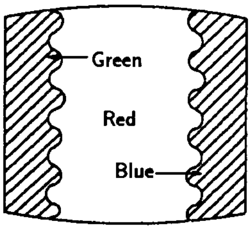

Purity control
A buckle
NECK ASSY
G1
G2
Deflection yoke

Fig.3-3


Green
Red
Blue

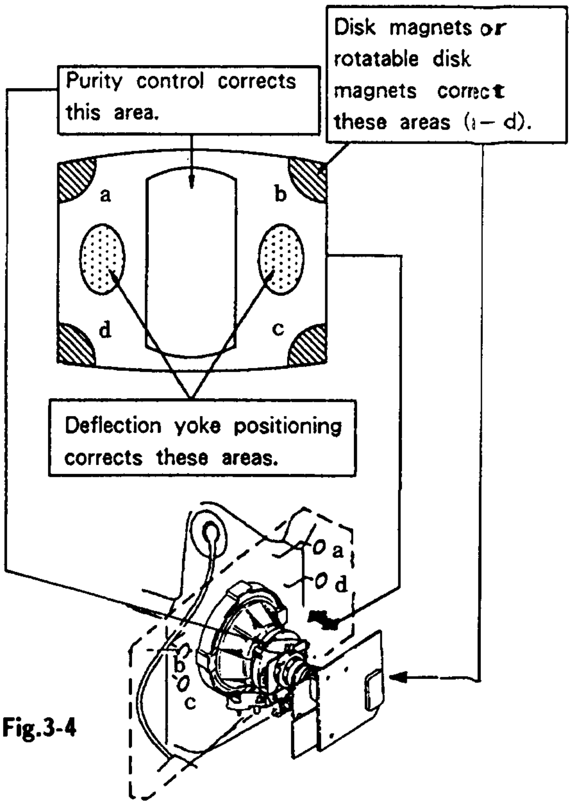

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a – d).
a
b
c
d
Deflection yoke positioning corrects these areas.
a
d
b
c

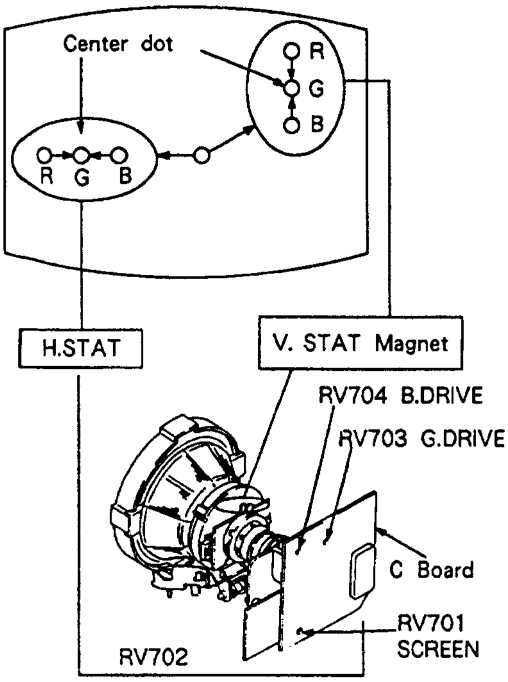
Fig.3-4

## 3-2. CONVERGENCE

**Preparations :**

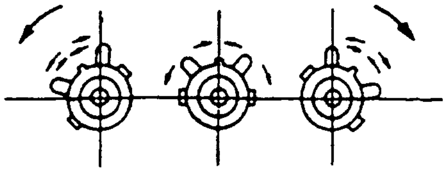
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

### (1) Horizontal and vertical static convergence

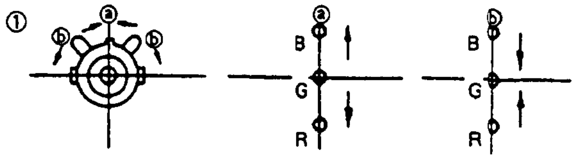

Center dot
R
G
B
R G B
H.STAT
V. STAT Magnet
RV704 B.DRIVE
RV703 G.DRIVE
C Board
RV701
SCREEN
RV702

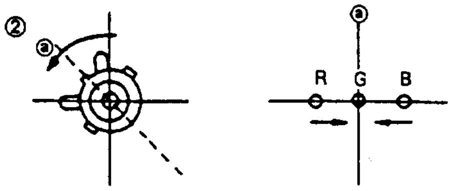
1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

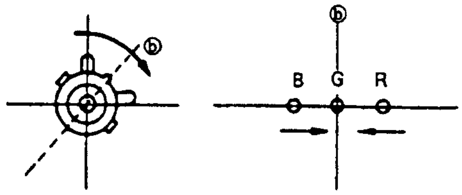
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

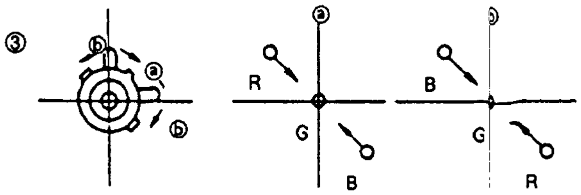


4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.

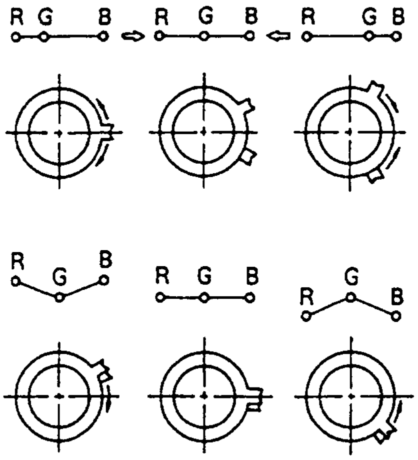




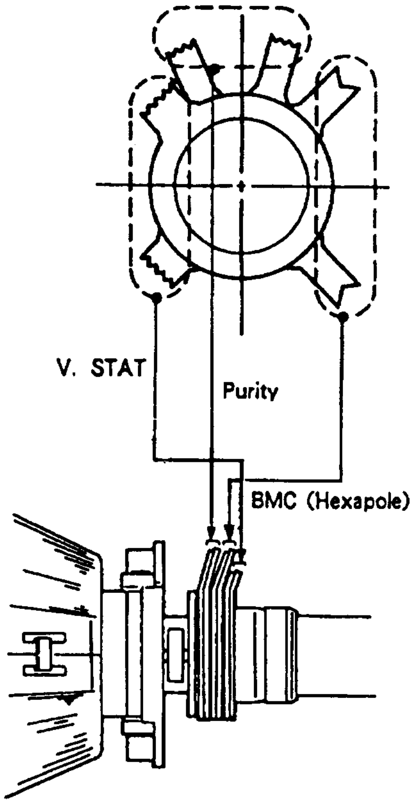




- Operation of BMC (Hexapole) Magnet


R G B
R G B
R G B
R G B
R G B
R G B

- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

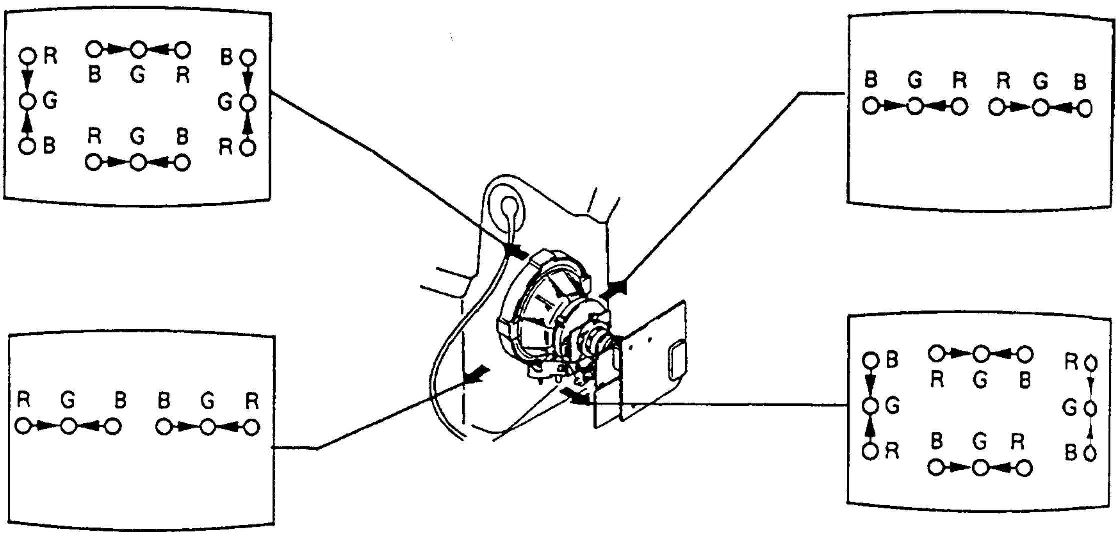

V. STAT
Purity
BMC (Hexapole)

### (2) Dynamic convergence adjustment

**Preparations :**

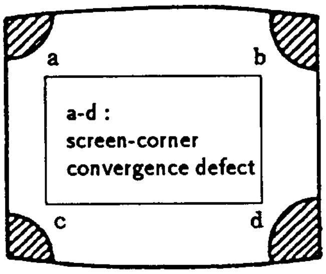
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

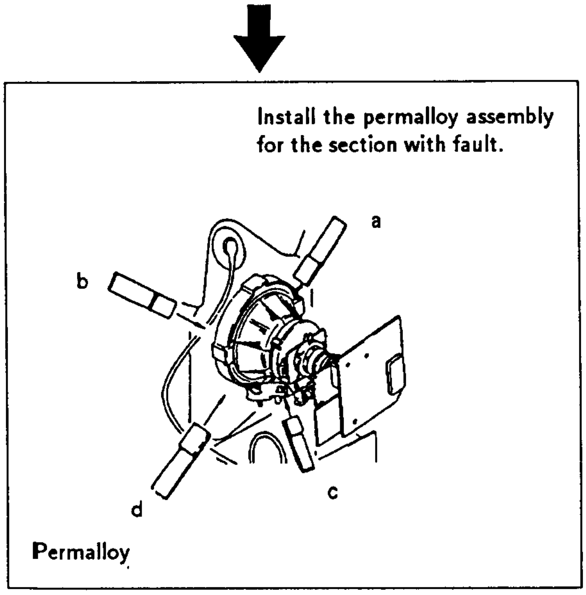
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the defelection yoke spacer.



### (3) Screen corner convergence

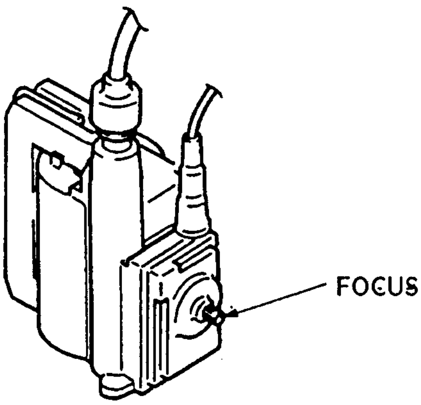
If you cannot adjust corner convergence properly, correct them with permalloy.





## 3-3. FOCUS

Adjust the focus to optimize the screen.



## 3-4. WHITE BALANCE

**Screen G2 Setting**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

**White balance adjustment**

1. Receive all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
3. Select CXA1587S on menu.

CXA1587S

| Item No. | Adjustment item | Data amout |
|---|---|---|
| 09 | SUB BRIGHT | ADJ. |
| 10 | SUB HUE | 8 |
| 11 | VM LEVEL | 2 |
| 12 | NR LEVEL | 0 |
| 13 | ABL MODE | 0 |
| 14 | G-DRIVE | ADJ. |
| 15 | B-DRIVE | ADJ. |
| 16 | G-AUTO CUT OFF | ADJ. |
| 17 | B-AUTO CUT OFF | ADJ. |
| 18 | R-MANUAL CUT OFF | ADJ. |
| 19 | G-MANUAL CUT OFF | ADJ. |
| 20 | B-MANUAL CUT OFF | ADJ. |

4. Set picture to MAX.
5. Adjust G-DRIVE B-DRIVE with ▲, ▼ buttons so that the white balance becomes optimum.
6. Press OK button to write the data for eachitem.
7. Set picture to MIN.
8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R-MANUAL CUT OFF, G-MANUAL CUTOFF and B-MANUAL CUT OFF with ▲, ▼ buttons so that the white balance becomes optimum.
9. Press OK button to write the data for eachitem.

# SECTION 4
# CIRCUIT ADJUSTMENTS

## 4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-830.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

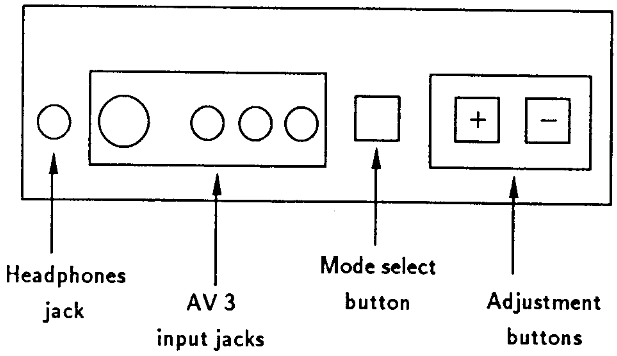


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode

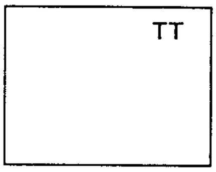


Fig.4-2

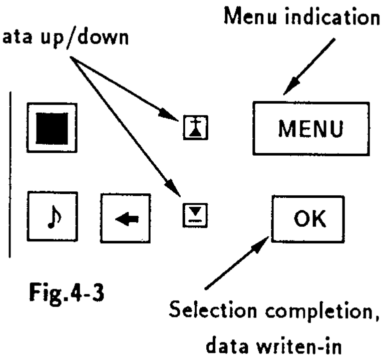

Item selection, data up/down
Menu indication
MENU
OK
Selection completion, data writen-in

Fig.4-3

3. Press the MENU button of the commander to get the menu on screen.

MAIN MENU

Programme Table
Video Connection
Timer
Preset
Picture Control
Sound Control
Language
> DEMO
Select ▲ ▼ and press OK

Fig.4-4

4. Press the ▲ and ▼ buttons of the commander and move > to DEMO.
5. Press OK button to proceed to the next menu.
6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

DEVICES

Initialize
> CXA 1587 S
CXD 2018
TDA 9145
CXA 1526
TDA 6612
CX 7948 A
P/P SERVICE
Select ▲ ▼ and press OK

Fig.4-5

7. If adjustment item is CXA 1587 S, press the ▼ button and move > to CXA 1587 S.
8. Press OK button to get the next selection menu.

CXA 1587 S

| Item No. | Adjustment item | Data Amout |
|---|---|---|
| 01 | PICTURE | 53 |
| 02 | COLOR | 31 |
| 03 | BRIGHT | 31 |
| 04 | HUE | 31 |
| 05 | SHARPNESS | 7 |
| 06 | RGB PICTURE | 10 |
| 07 | SUB CONTRAST | 8 |
| 08 | SUB COLOR | 8 |
| 09 | SUB BRIGHT | 31 |
| 10 | SUB HUE | 8 |
| 11 | VM LEVEL | 2 |
| 12 | NR LEVEL | 0 |
| 13 | ABL MODE | 0 |
| 14 | G-DRIVE | 32 |
| 15 | B-DRIVE | 32 |

9. Press ▼ button and move > to the adjustment item and press OK button.
10. Press the ▲ and ▼ buttons to change the data in order to comply each standard.
11. Press OK button to write data.
12. Turn off the power to quit service mode when completing the adjustment.

CXA1587S

| Item No. | Adjustment item | Data Amout |
|---|---|---|
| 01 | PICTURE | 53 |
| 02 | COLOR | 31 |
| 03 | BRIGHT | 31 |
| 04 | HUE | 31 |
| 05 | SHARPNESS | 7 |
| 06 | RGB PICTURE | 10 |
| 07 | SUB CONTRAST | 8 |
| 08 | SUB COLOR | ADJ. |
| 09 | SUB BRIGHT | ADJ. |
| 10 | SUB HUE | 8 |
| 11 | VM LEVEL | 2 |
| 12 | NR LEVEL | 0 |
| 13 | ABL MODE | 0 |
| 14 | G-DRIVE | ADJ. |
| 15 | B-DRIVE | ADJ. |
| 16 | G-AUTO CUT OFF | ADJ. |
| 17 | B-AUTO CUT OFF | ADJ. |
| 18 | R-MANUAL CUT OFF | ADJ. |
| 19 | G-MANUAL CUT OFF | ADJ. |
| 20 | B-MANUAL CUT OFF | ADJ. |
| 21 | GAMMA LEVEL | 0 |
| 22 | DC TRANSFER RATIO | 0 |
| 23 | DYNAMIC PICTURE | 0 |
| 24 | Y FILTER ADJ | ADJ. |
| 25 | Y DELAY TIME | 15 |
| 26 | Y DELAY SWITCH 1 | OFF |
| 27 | Y DELAY SWITCH 2 | ON |
| 28 | SHARPNESS LIMIT | ON |
| 29 | ALL BLK | OFF |
| 30 | H SHIFT | 32 |
| 31 | DAC TEST | AUTO |
| 32 | PRE/OVER SHOOT | 8 |
| 33 | SHARPNESS FO | 2 |
| 34 | SUB SHARPNESS | 3 |
| 35 | R MUTE | OFF |
| 36 | G MUTE | OFF |
| 37 | B MUTE | OFF |
| 38 | AGING 1 | OFF |
| 39 | AGING 2 | AUTO |
| 40 | AKB OFF | ON |
| 41 | INHIBIT RGB | OFF |
| 42 | FORCED RGB | AUTO |
| 43 | V/2 V | ON |
| 44 | AXIS | AUTO |
| 45 | HUE SW | OFF |
| 46 | V EXTENTION | OFF |
| 47 | AFC 1 | ON |
| 48 | AFC 2 | OFF |
| 49 | AFC OFF | ON |
| 50 | REF.POSITION | OFF |

CXD 2018

| Item No. | Adjustment item | Data Amout |
|---|---|---|
| 01 | V SIZE | ADJ. |
| 02 | V SHIFT | ADJ. |
| 03 | S CORRECTION | ADJ. |
| 04 | V LINEARITY | ADJ. |
| 05 | H SIZE | ADJ. |
| 06 | PIN AMP | ADJ. |
| 07 | TILT | ADJ. |
| 08 | UPPER CORNER | ADJ. |
| 09 | LOWER CORNER | ADJ. |
| 10 | V BOW | ADJ. |
| 11 | ANGLE | ADJ. |
| 12 | HV COMP.V | 15 |
| 13 | HV COMP.H | 8 |
| 14 | FRAME SHIFT | OFF |
| 15 | FREE RUN 60 Hz | OFF |
| 16 | SYSTEM 60 Hz | OFF |
| 17 | ASPECT WIDE | OFF |
| 18 | DOUBLE SCAN | OFF |
| 19 | NON INTERLACE | OFF |
| 20 | H SHIFT | ADJ. |
| 21 | N/S CORRECTION | ADJ. |

Typical Value (OSD based)when receiving PAL Philips pattern.

TDA 6612

| Adjustment item | Data Amout |
|---|---|
| Stereo-Separation | 30 |

Should be adjusted twice 4 : 3 and 16 : 9 mode.

Y
1.
2.
3.
4.

SU
1.
2.
3.

SU
1.
2.
3.

SU
1.
2.
3.
4.

## Y FILTER ADJUSTMENT

1. Input PAL RED pattern.
2. Connect an oscilloscope to CN 0403 ① pin (R OUT) on the C board.
3. Enter into service mode and press 3, 8.
4. Adjust data by △ or ▽ to minimize the chroma element of CN 0403 ① pin.

## SUB BRIGHTNESS ADJUSTMENT

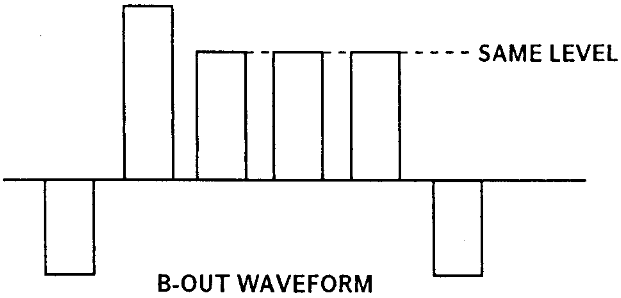
1. Input Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of the grey scale and CUT-OFF 20-IRE glitter slightly.

## SUB CONTRAST ADJUSTMENT

1. Input a video that contains small 100% area on the Black Back ground.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0403 (R out).

## SUB COLOR ADJUSTMENT

1. Input PAL color bar.
2. Connect an oscilloscope to CN 0403 ③ pin (B OUT) on the C board.
3. Enter into service mode and press 22 of CXA 1587 S, 8 SUB COLOR.
4. Adjust data so that the right sides of the waveform will be the same.



B-OUT WAVEFORM

## STEREO-SEPARATION ADJUSTMENT

1. Input 1 kHz stereo signal to the L-ch and 400 Hz stereo signal to the R-ch.
2. Enter into service mode and press 19.
3. Adjust data so that sound does not leak to the R-ch and the L-ch.

## DRIVE AND CUT OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

## DE

1. I
2.

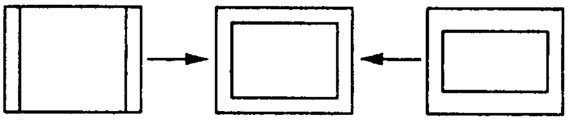
## DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode and select CXD 2018.
2. Select and adjust each item in order to get an optimum image.

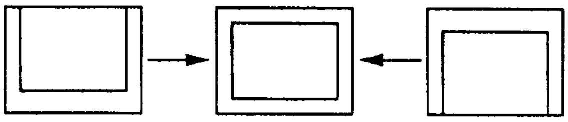
CXD 2018

| Item No. | Adjustment item | Data Amout |
|---|---|---|
| 01 | V SIZE | ADJ. |
| 02 | V SHIFT | ADJ. |
| 03 | S CORRECTION | ADJ. |
| 04 | V LINEARITY | ADJ. |
| 05 | H SIZE | ADJ. |
| 06 | PIN AMP | ADJ. |
| 07 | TILT | ADJ. |
| 08 | UPPER CORNER | ADJ. |
| 09 | LOWER CORNER | ADJ. |
| 10 | V BOW | ADJ. |
| 11 | ANGLE | ADJ. |
| 12 | HV COMP.V | 13 |
| 13 | HV COMP.H | 8 |
| 14 | FRAME SHIFT | OFF |
| 15 | FREE RUN 60 Hz | OFF |
| 16 | SYSTEM 60 Hz | OFF |
| 17 | ASPECT WIDE | OFF |
| 18 | DOUBLE SCAM | OFF |
| 19 | NON INTERLACE | ON |
| 20 | H SHIFT | 32 |
| 21 | N/S CORRECTION | ADJ. |

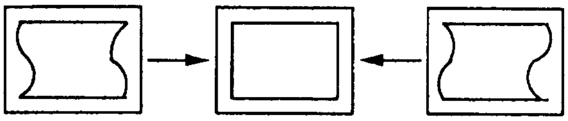
V SIZE



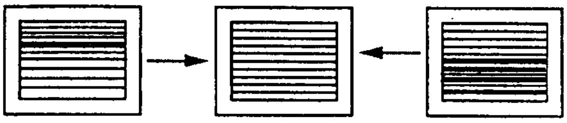
V SHIFT



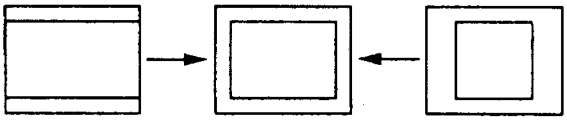
S CORRECTION



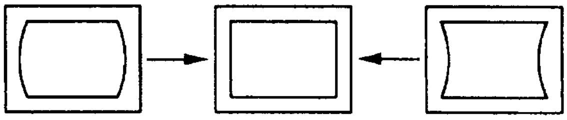
V LINEARITY



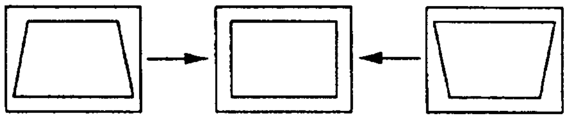
H SIZE



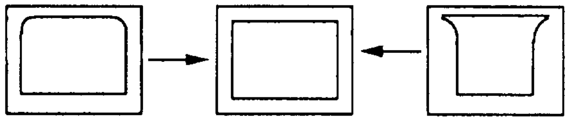
PIN AMP



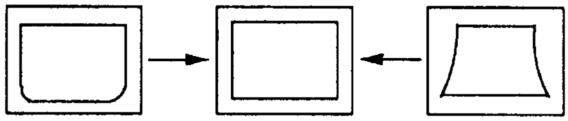
TILT



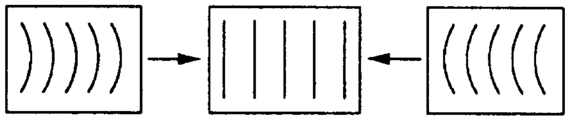
UPPER CORNER PIN



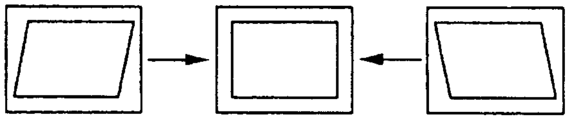
LOWER CORNER PIN



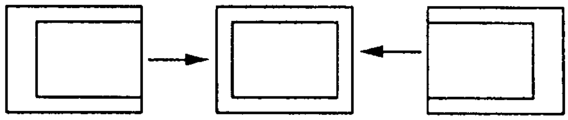
V BOW



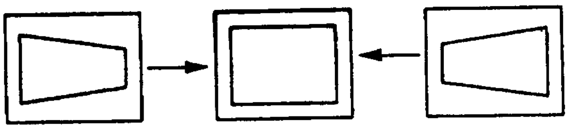
ANGLE



H SHIFT



N/S CORRECTION



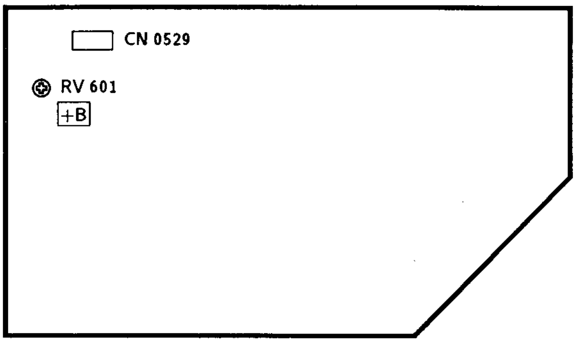
3. Press OK button to write the data.

If menu display may disturb the adjustment press 🔇 to clear, to resume it, press 🔇 again.

## 4-2. VOLUME ELECTRICAL ADJUSTMENTS

### +B (+135 V) ADJUSTMENT (RV 601)

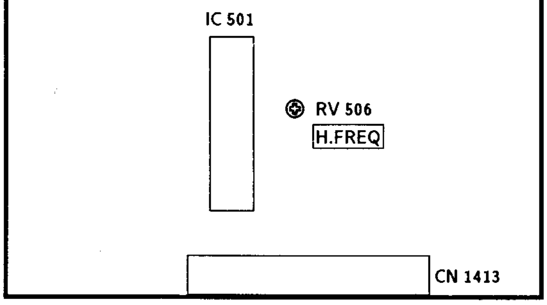
D BOARD



1. Turn on the power of the TV set.
2. Connect a digital multi-meter to ① pin of CN 0529 on D board.
3. Adjust RV 601 on D board to +135±0.5 V.

### H.FREQ ADJUSTMENT (RV 506)

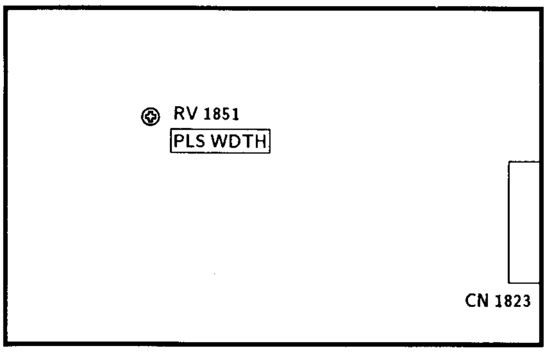
M BOARD



1. Connect GND to ⑫ pin of IC 501 on M board.
2. Connect a frequency counter to ④ pin of IC 501.
3. Adjust RV 506 on M board to 15,625 kHz±10 Hz.
4. Remove ⑫ pin of IC 501 from GND.

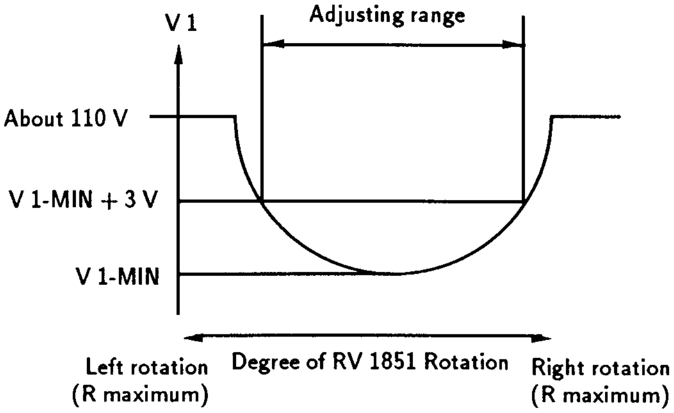
### PLS WDTH

D 2 BOARD



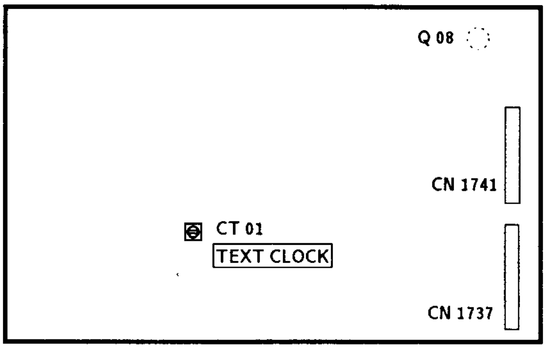
### DRIVE PULSE PHASE ADJUSTMENT(RV 1851)

1) While measuring the voltage V 1 at both edges of C 1859, rotate RV 1851 so that it becomes minimum. The adjusting range is from (the voltage at which V 1 becomes minimum) V 1 MIN to 3 V, which means, adjust to between V 1 MIN to V 1 MIN + 3 V.



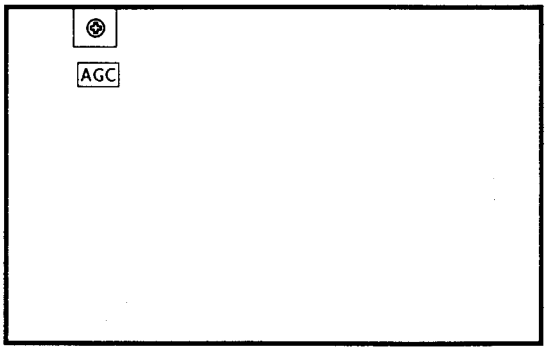
### TEXT CLOCK ADJUSTMENT (CT 01)

V BOARD



1. Get TEXT MENU on screen.
2. Connect GND and the base of Q 08 on V board.
3. Adjust CT 01 on V board so that the MENU stands still as much as possible.

### AGC ADJUSTMENT (IF BLOCK)



1. Receive off-air signal.
2. Adjust AGC VR so that there is no snow noise and cross-modulation.
3. Change receiving channel and confirm status.

## 4-3. TEST MODE 2 :

Is available by pressing Test button two times, OSD "TT"appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

| | |
|---|---|
| 00 | switch Test Mode 2 off |
| 01 | picture maximum |
| 02 | picture minimum |
| 03 | Volume 35% |
| 04 | Volume 50% |
| 05 | Volume 65% |
| 06 | Volume 80% |
| 07 | Aging Condition (Volumin., Picture max., Brightness max., Aging 2 Mode of CXA 1587 S, TDA 2595 is locked to CXA 1587S via PIN 34 of μ-Con.) |
| 08 | Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off) |
| 09 | dummy |
| 10 | Tenth entry is deleted |
| 11 | Balance |
| 12 | Hue |
| 13-14 | dummy |
| 15 | Read factory setting from NVM<br>Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory) |
| 16 | Save actual used values as RESET values<br>Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM |
| 17 | Preset Level for AV Sources |
| 18 | dummy |
| 19 | Stereo Seperation |
| 20 | Tenth entry is deleted |
| 21 | Sub Contrast |
| 22 | Sub Colour |
| 23 | Sub Brightness |
| 24-29 | dummy |

| | |
|---|---|
| 30 | Tenth entry is deleted |
| 31 | Green Drive |
| 32 | Blue Drive |
| 33 | Green Cut Off (Auto Cut Off) |
| 34 | Blue Cut Off (Auto Cut Off) |
| 35 | Red Cut Off (Manual Cut Off)<br>(Auto Cut Off is switched off) |
| 36 | Green Cut Off (Manual Cut Off)<br>(Auto Cut Off is switched off) |
| 37 | Blue Cut Off (Manual Cut Off)<br>(Auto Cut Off is switched off) |
| 38 | Y-Filter adjustment (Trap is switched off and TDA 9145 is switched in forced NTSC Mode) |
| 39 | dummy |
| 40 | Tenth entry is deleted |
| 41 | Default setting of CXA 1587S<br>(Only in Plog 99 available) |
| 42 | Default setting of CXA 2018<br>(Only in Plog 99 available) |
| 43 | Default setting of CXA 1526<br>(Only in Plog 99 available) |
| 44 | (all Port High) Not yet |
| 45 | (all Port High) Not yet |
| 46-48 | dummy |
| 49 | Erease the NVM Testbyte (this byte detects already stored NMV's) After selecting this function, switch TV Off and On → the NVM will be preset by μ-Controller. (Not the channel data) |

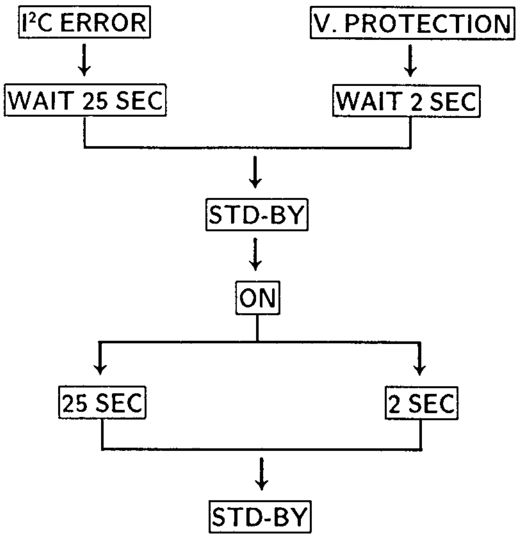
Note: For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA 9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

## 4-4. ERROR MESSAGE

Self diagnos system can operate as follows.

- When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs show error 2) .

TABLE OF ERRORS

| ERROR COUNT | IC TYPE | FUNCTION |
|---|---|---|
| 1 | ⅡC BUS | SDA low |
| 2 | X 24 C 16 | EEPROM |
| 3 | SDA 3202 | Tuner Pll |
| 4 | TDA 9145 | Colour decoder |
| 5 | CXA 1587S | RGB/Jungle |
| 6 | TDA 6612 | Sound processor |
| 7 | CXD 2018 | V deflection |
| 8 | CXA 1545 | AV switch |
| 11 | SDA 5248 | Text |
| 13 | | V protection |

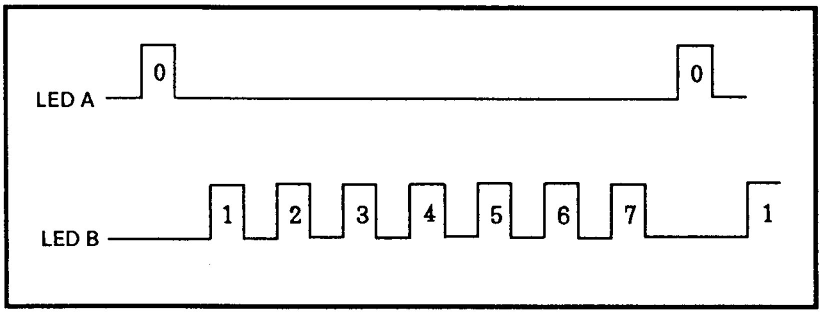
Stand by LED blinking

No IK return

## 4-5. ERROR ⅡC BUS DIAGNOSIS SYSTEM IN AE 2 CHASSIS

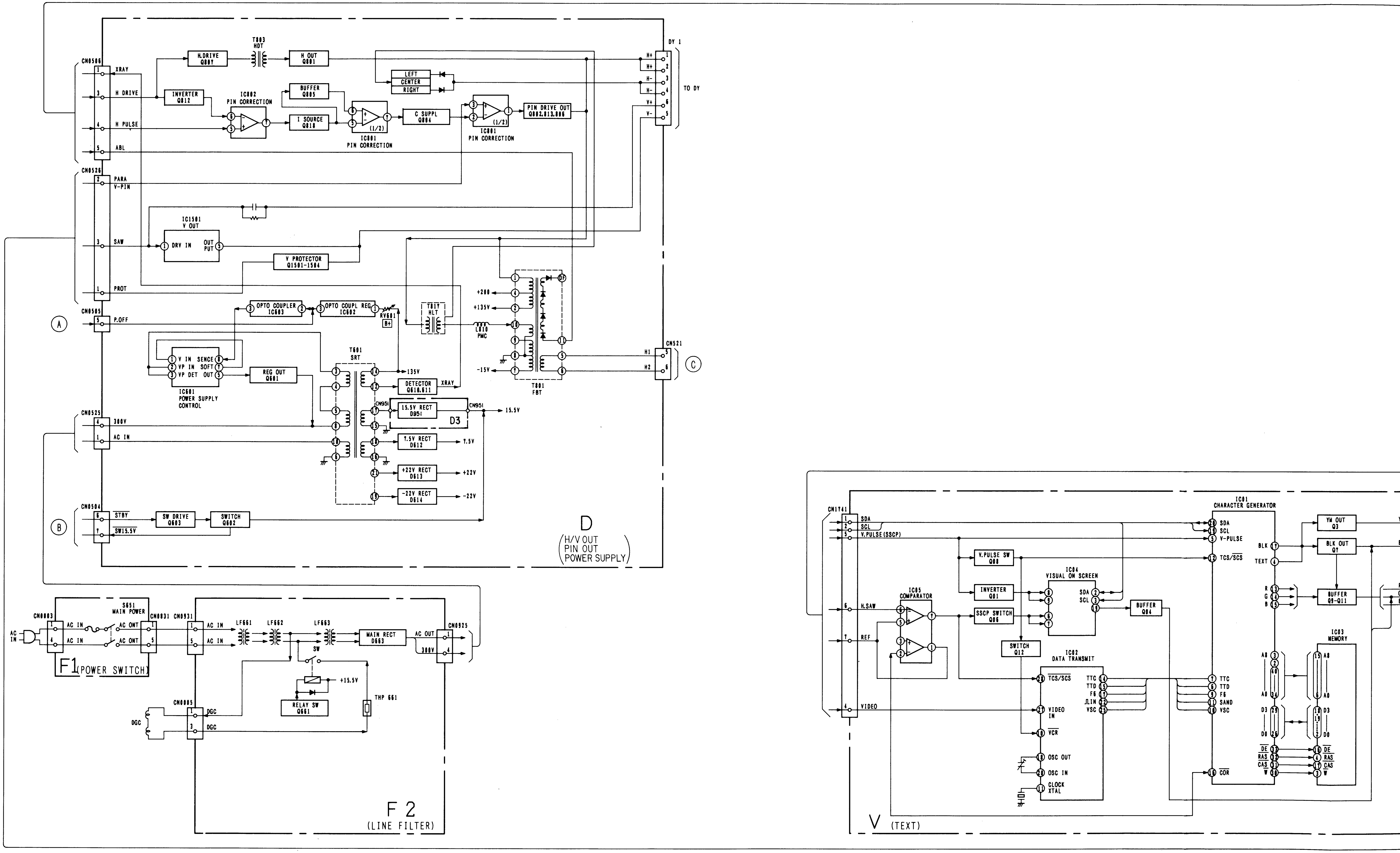
For all ICs in AE2 chassis which are necessary to get picture and sound there is a built in error I²C Bus diagnosis system.

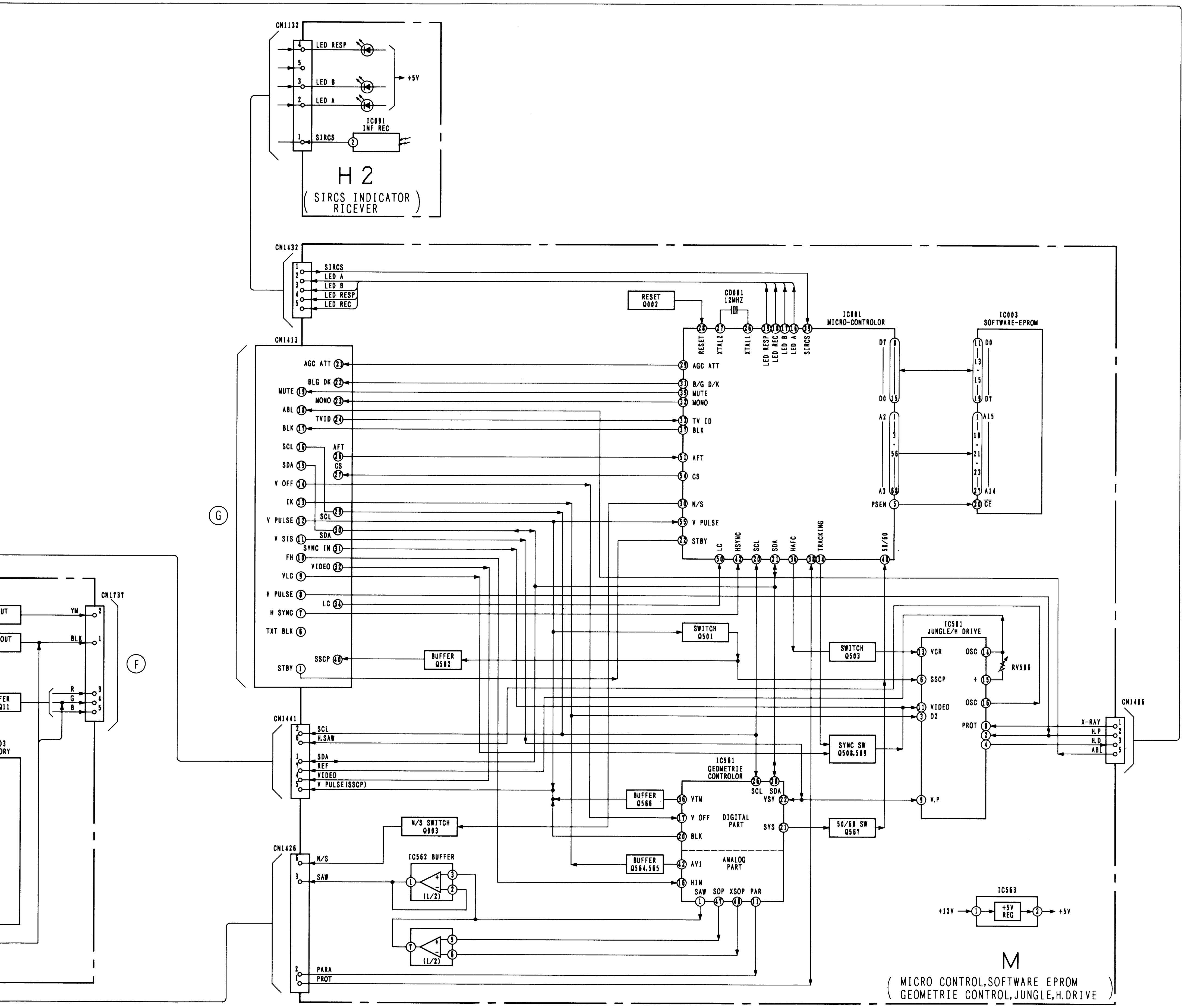
In case of no acknowledge bit, LED A and LED B start blinking as shown.



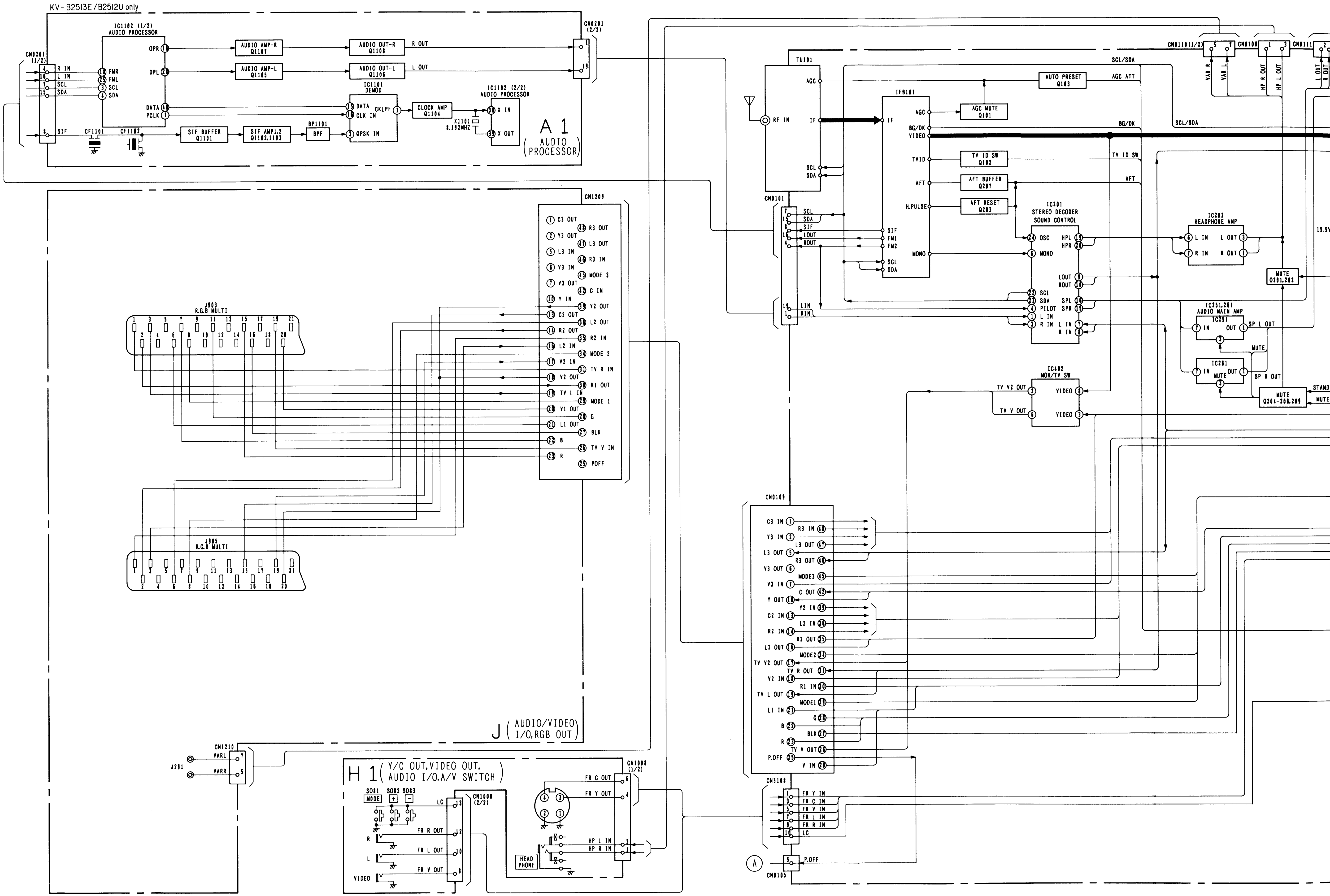
# SECTION 5
# DIAGRAMS

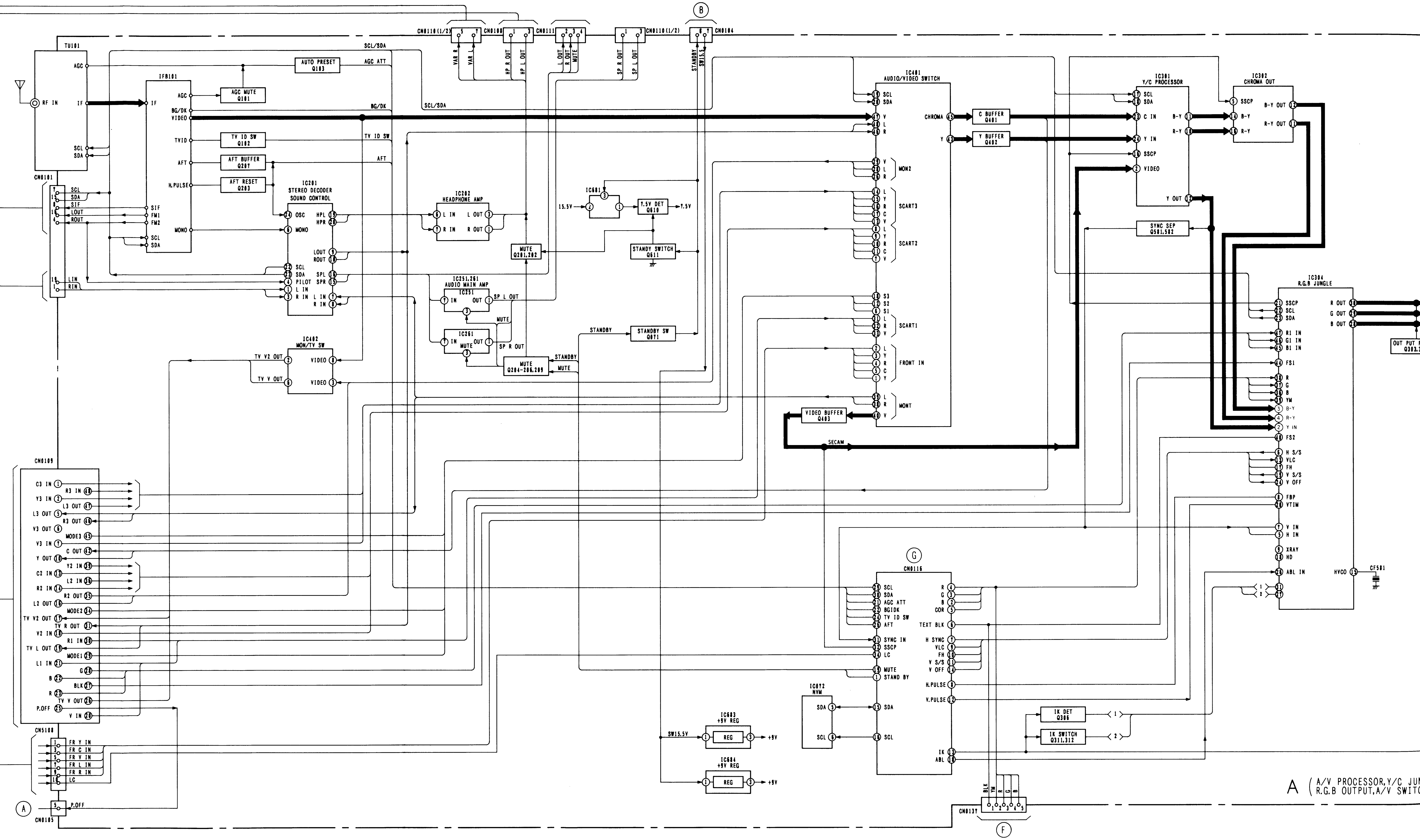
## 5-1. BLOCK DIAGRAM (1)

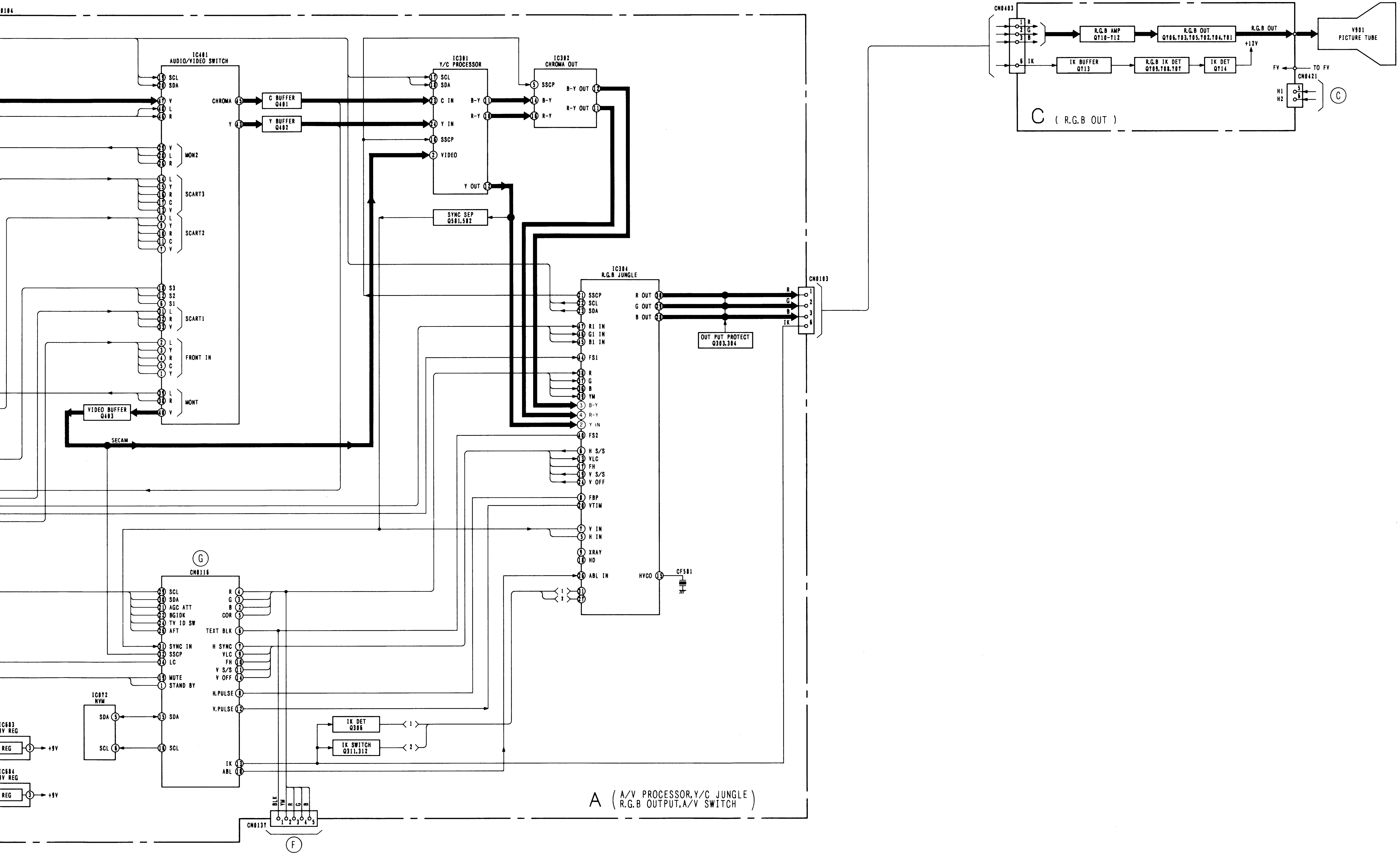

CN0506
XRAY
H DRIVE
H PULSE
ABL
H.DRIVE Q807
T803 HDT
H OUT Q801
INVERTER Q812
IC802 PIN CORRECTION
BUFFER Q805
I SOURCE Q818
C SUPPL Q804
IC801 PIN CORRECTION
(1/2)
LEFT
CENTER
RIGHT
PIN DRIVE OUT Q802,813,806
DY 1
H+
H-
V+
V-
TO DY
CN0526
PARA V-PIN
IC1501 V OUT
DRV IN
OUT PUT
SAW
V PROTECTOR Q1501-1504
PROT
CN0505
P.OFF
A
OPTO COUPLER IC603
OPTO COUPL REG IC602
RV601
B+
T817 HLT
L810 PMC
+200
+135V
-15V
T801 FBT
CN521
H1
H2
C
V IN SENCE
VP IN SOFT
VP DET OUT
IC601 POWER SUPPLY CONTROL
REG OUT Q601
T601 SRT
135V
DETECTOR Q610,611
XRAY
CN951
15.5V RECT D951
D3
15.5V
7.5V RECT D612
7.5V
+22V RECT D613
+22V
-22V RECT D614
-22V
CN0525
300V
AC IN
CN0504
STBY
SW15.5V
SW DRIVE Q603
SWITCH Q602
B
D
(H/V OUT PIN OUT POWER SUPPLY)
CN0803
AC IN
S651 MAIN POWER
AC ONT
CN0831
CN0931
F1 (POWER SWITCH)
LF661
LF662
LF663
MAIN RECT D663
AC OUT
CN0925
SW
+15.5V
RELAY SW Q661
THP 661
CN0805
DGC
F 2 (LINE FILTER)
CN1741
SDA
SCL
V.PULSE (SSCP)
H.SAW
REF
VIDEO
IC05 COMPARATOR
V.PULSE SW Q08
INVERTER Q01
SSCP SWITCH Q06
SWITCH Q12
IC04 VISUAL ON SCREEN
BUFFER Q04
IC02 DATA TRANSMIT
TCS/SCS
VIDEO IN
VCR
OSC OUT
OSC IN
CLOCK XTAL
TTC
TTD
FS
SAND
VSC
IC01 CHARACTER GENERATOR
V-PULSE
TCS/SCS
BLK
TEXT
R
G
B
COR
YM OUT Q3
BLK OUT Q7
BUFFER Q9-Q11
IC03 MEMORY
A8
A0
D3
D0
DE
RAS
CAS
W
V (TEXT)


CN1132
LED RESP
LED B
LED A
SIRCS
+5V
IC001
INF REC
H2
( SIRCS INDICATOR RICEVER )
CN1432
SIRCS
LED A
LED B
LED RESP
LED REC
CN1413
AGC ATT
BLG DK
MUTE
MONO
ABL
TVID
BLK
SCL
AFT
SDA
CS
V OFF
IK
V PULSE
V SIS
SYNC IN
FH
VIDEO
VLC
H PULSE
LC
H SYNC
TXT BLK
SSCP
STBY
G
RESET
Q002
CD001
12MHZ
IC001
MICRO-CONTROLOR
RESET
XTAL2
XTAL1
LED RESP
LED REC
LED B
LED A
SIRCS
AGC ATT
B/G D/K
MUTE
MONO
TV ID
BLK
AFT
CS
N/S
V PULSE
STBY
LC
HSYNC
SCL
SDA
HAFC
TRACKING
50/60
D7
D0
A2
A3
PSEN
IC003
SOFTWARE-EPROM
D0
D7
A15
A14
CE
SWITCH
Q501
BUFFER
Q502
SWITCH
Q503
IC501
JUNGLE/H DRIVE
VCR
SSCP
VIDEO
D2
V.P
OSC
+
OSC
PROT
RV506
CN1406
X-RAY
H.P
H.D
ABL
SYNC SW
Q508,509
CN1737
YM
BLK
R
G
B
F
CN1441
SCL
H.SAW
SDA
REF
VIDEO
V PULSE(SSCP)
IC561
GEOMETRIE
CONTROLOR
SCL
SDA
VSY
VTM
V OFF
BLK
DIGITAL PART
SYS
AVI
ANALOG PART
HIN
SAW
SOP
XSOP
PAR
BUFFER
Q566
BUFFER
Q564,565
N/S SWITCH
Q003
50/60 SW
Q567
CN1426
N/S
SAW
IC562 BUFFER
(1/2)
(1/2)
PARA
PROT
IC563
+12V
+5V
REG
+5V
M
( MICRO CONTROL,SOFTWARE EPROM GEOMETRIE CONTROL,JUNGLE,H.DRIVE )

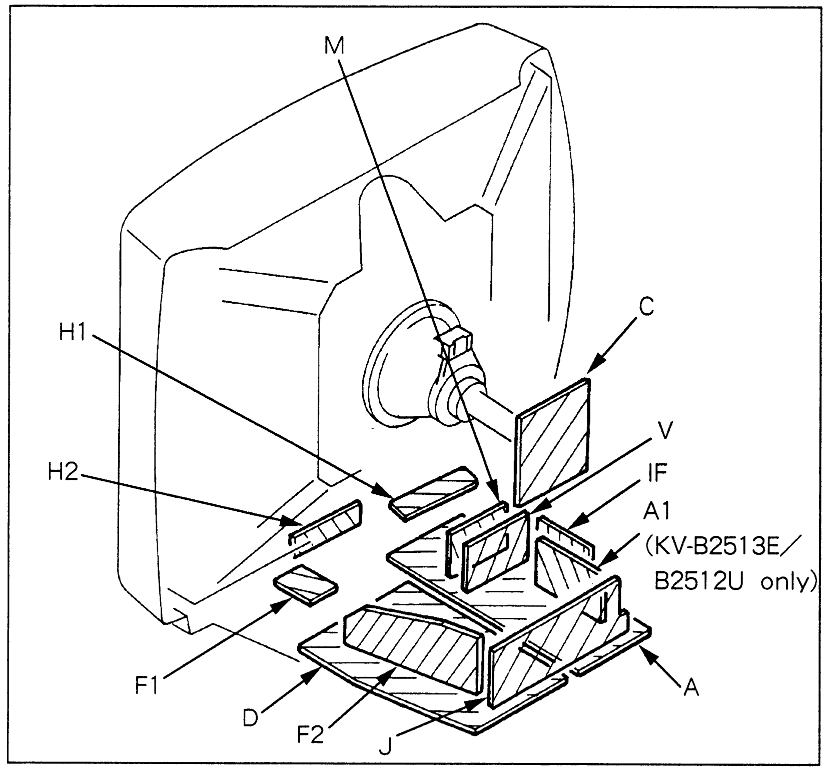
## 5-2. BLOCK DIAGRAM (2)


KV-B2513E/B2512U only
CN0201 (1/2)
R IN
L IN
SCL
SDA
SIF
IC1102 (1/2) AUDIO PROCESSOR
FMR
FML
SCL
SDA
OPR
DPL
DATA
PCLK
AUDIO AMP-R Q1107
AUDIO AMP-L Q1105
AUDIO OUT-R Q1108
AUDIO OUT-L Q1106
R OUT
L OUT
CN0201 (2/2)
IC1101 DEMOD
DATA
CLK IN
QPSK IN
CKLPF
CLOCK AMP Q1104
IC1102 (2/2) AUDIO PROCESSOR
X IN
X OUT
X1101 8.192MHZ
CF1101
CF1102
SIF BUFFER Q1101
SIF AMP1,2 Q1102,1103
BP1101 BPF
A 1 (AUDIO PROCESSOR)
CN1209
C3 OUT
R3 OUT
Y3 OUT
L3 OUT
L3 IN
R3 IN
V3 IN
MODE 3
V3 OUT
C IN
Y IN
Y2 OUT
C2 OUT
L2 OUT
R2 OUT
R2 IN
L2 IN
MODE 2
V2 IN
TV R IN
V2 OUT
R1 OUT
TV L IN
MODE 1
V1 OUT
G
L1 OUT
BLK
B
TV V IN
R
POFF
J903 R.G.B MULTI
J905 R.G.B MULTI
J (AUDIO/VIDEO I/O,RGB OUT)
CN1210
VARL
VARR
J291
H 1 (Y/C OUT,VIDEO OUT, AUDIO I/O,A/V SWITCH)
S081 MODE
S082 +
S083 −
LC
CN1008 (2/2)
FR R OUT
FR L OUT
FR V OUT
R
L
VIDEO
CN1008 (1/2)
FR C OUT
FR Y OUT
HP L IN
HP R IN
HEAD PHONE
TU101
RF IN
AGC
IF
SCL
SDA
IFB101
AGC
BG/DK
VIDEO
TVID
AFT
H.PULSE
SIF
FM1
FM2
SCL
SDA
MONO
AGC MUTE Q101
TV ID SW Q102
AFT BUFFER Q207
AFT RESET Q203
AUTO PRESET Q103
AGC ATT
SCL/SDA
BG/DK
TV ID SW
AFT
CN0101
LOUT
ROUT
LIN
RIN
IC201 STEREO DECODER SOUND CONTROL
OSC
MONO
HPL
HPR
LOUT
ROUT
SCL
SDA
PILOT
L IN
R IN
SPL
SPR
IC202 HEADPHONE AMP
L IN
R IN
L OUT
R OUT
MUTE Q201,202
15.5V
IC251,261 AUDIO MAIN AMP
IC251
IC261
IN
OUT
MUTE
SP L OUT
SP R OUT
MUTE Q204-206,209
STAND
MUTE
IC402 MON/TV SW
TV V2 OUT
TV V OUT
VIDEO
CN0110 (1/2)
CN0100
CN0111
VAR R
VAR L
HP R OUT
HP L OUT
L OUT
CN0109
C3 IN
R3 IN
Y3 IN
L3 OUT
L3 OUT
R3 OUT
V3 OUT
MODE3
V3 IN
C OUT
Y OUT
Y2 IN
C2 IN
L2 IN
R2 IN
R2 OUT
L2 OUT
MODE2
TV V2 OUT
TV R OUT
V2 IN
R1 IN
TV L OUT
MODE1
L1 IN
G
B
BLK
R
TV V OUT
P.OFF
V IN
CN5108
FR Y IN
FR C IN
FR V IN
FR L IN
FR R IN
LC
A
P.OFF
CN0105


TU101
AGC
RF IN
IF
SCL
SDA
IFB101
AGC MUTE Q101
AUTO PRESET Q103
AGC ATT
SCL/SDA
BG/DK
VIDEO
TVID
AFT
H.PULSE
MONO
TV ID SW Q102
AFT BUFFER Q207
AFT RESET Q203
SIF
FM1
FM2
CN0101
LOUT
ROUT
LIN
RIN
IC201 STEREO DECODER SOUND CONTROL
OSC
HPL
HPR
LOUT
ROUT
PILOT
SPL
SPR
L IN
R IN
IC202 HEADPHONE AMP
L IN
R IN
L OUT
R OUT
MUTE Q201,202
IC251,261 AUDIO MAIN AMP
IC251
IC261
SP L OUT
SP R OUT
MUTE
MUTE Q204-206,209
STANDBY
IC402 MON/TV SW
TV V2 OUT
TV V OUT
VIDEO
IC601
15.5V
7.5V DET Q610
7.5V
STANDY SWITCH Q611
STANDBY SW Q071
CN0110(1/2)
CN0108
CN0111
CN0104
VAR R
VAR L
HP R OUT
HP L OUT
L OUT
R OUT
MUTE
SP R OUT
SP L OUT
STANDBY
SW15.5
B
IC401 AUDIO/VIDEO SWITCH
CHROMA
Y
MON2
SCART3
SCART2
S3
S2
S1
SCART1
FRONT IN
MONT
C BUFFER Q401
Y BUFFER Q402
VIDEO BUFFER Q403
SECAM
IC301 Y/C PROCESSOR
C IN
Y IN
SSCP
VIDEO
B-Y
R-Y
Y OUT
IC302 CHROMA OUT
B-Y OUT
R-Y OUT
SYNC SEP Q501,502
IC304 R.G.B JUNGLE
R OUT
G OUT
B OUT
R1 IN
G1 IN
B1 IN
FS1
YM
Y IN
FS2
H S/S
VLC
FH
V S/S
V OFF
FBP
VTIM
V IN
H IN
XRAY
HD
ABL IN
HVCO
CF501
OUT PUT
Q303
CN0109
C3 IN
Y3 IN
L3 OUT
V3 OUT
V3 IN
Y OUT
C2 IN
R2 IN
L2 OUT
TV V2 OUT
V2 IN
TV L OUT
L1 IN
B
R
P.OFF
R3 IN
L3 OUT
R3 OUT
MODE3
C OUT
Y2 IN
L2 IN
R2 OUT
MODE2
TV R OUT
R1 IN
MODE1
G
BLK
TV V OUT
V IN
CN5100
FR Y IN
FR C IN
FR V IN
FR L IN
FR R IN
LC
A
CN0105
P.OFF
G
CN0116
SCL
SDA
AGC ATT
BGIDK
TV ID SW
AFT
SYNC IN
SSCP
LC
MUTE
STAND BY
SDA
SCL
R
G
B
COR
TEXT BLK
H SYNC
VLC
FH
V S/S
V OFF
H.PULSE
V.PULSE
IK
ABL
IC072 NVM
SDA
SCL
IC603 +9V REG
IC604 +9V REG
REG
SW15.5V
+9V
IK DET Q306
IK SWITCH Q311,312
CN0137
BLK
YM
R
G
B
F
A (A/V PROCESSOR,Y/C JU
R.G.B OUTPUT,A/V SWITC


IC401 AUDIO/VIDEO SWITCH
SCL
SDA
V
L
R
CHROMA
Y
MON2
SCART3
SCART2
S3
S2
S1
SCART1
FRONT IN
MONI
C BUFFER Q401
Y BUFFER Q402
VIDEO BUFFER Q403
SECAM
IC301 Y/C PROCESSOR
C IN
Y IN
SSCP
VIDEO
B-Y
R-Y
Y OUT
SYNC SEP Q501,502
IC302 CHROMA OUT
B-Y OUT
R-Y OUT
IC304 R.G.B JUNGLE
R OUT
G OUT
B OUT
R1 IN
G1 IN
B1 IN
FS1
YM
Y IN
FS2
H S/S
VLC
FH
V S/S
V OFF
FBP
VTIM
H IN
XRAY
HD
ABL IN
HVCO
CF501
OUT PUT PROTECT Q303,304
CN0103
IK
G
CN0116
AGC ATT
BGIDK
TV ID SW
AFT
SYNC IN
LC
MUTE
STAND BY
COR
TEXT BLK
H SYNC
H.PULSE
V.PULSE
ABL
IC072 NVM
IC603 5V REG
IC604 5V REG
REG
+9V
IK DET Q306
IK SWITCH Q311,312
CN0137
BLK
F
A (A/V PROCESSOR,Y/C JUNGLE R.G.B OUTPUT,A/V SWITCH)
CN0403
R.G.B AMP Q710-712
R.G.B OUT Q706,703,705,702,704,701
R.G.B OUT
+12V
V901 PICTURE TUBE
IK BUFFER Q713
R.G.B IK DET Q709,708,707
IK DET Q714
FV
TO FV
CN0421
H1
H2
C
C ( R.G.B OUT )

## 5-3. CIRCUIT BOARDS LOCATION


M
C
H1
H2
V
IF
A1
(KV-B2513E/
B2512U only)
F1
D
F2
J
A

Reference information

| | | |
|---|---|---|
| RESISTOR | RN | : METAL FILM |
| | RC | : SOLID |
| | FPRD | : NONFLAMMABLE CARBON |
| | FUSE | : NONFLAMMABLE FUSIBLE |
| | RS | : NONFLAMMABLE METAL OXIDE |
| | RB | : NONFLAMMABLE CEMENT |
| | RW | : NONFLAMMABLE WIREWOUND |
| | ※ | : ADJUSTMENT RESISTOR |
| COIL | LF-8L | : MICRO INDUCTOR |
| CAPACITOR | TA | : TANTALUM |
| | PS | : STYROL |
| | PP | : POLYPROPYLENE |
| | PT | : MYLAR |
| | MPS | : METALIZED POLYESTER |
| | MPP | : METALIZED POLYPROPYLENE |
| | ALB | : BIPOLAR |
| | ALT | : HIGH TEMPERATURE |
| | ALR | : HIGH RIPPLE |

**Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

**Note: Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.**

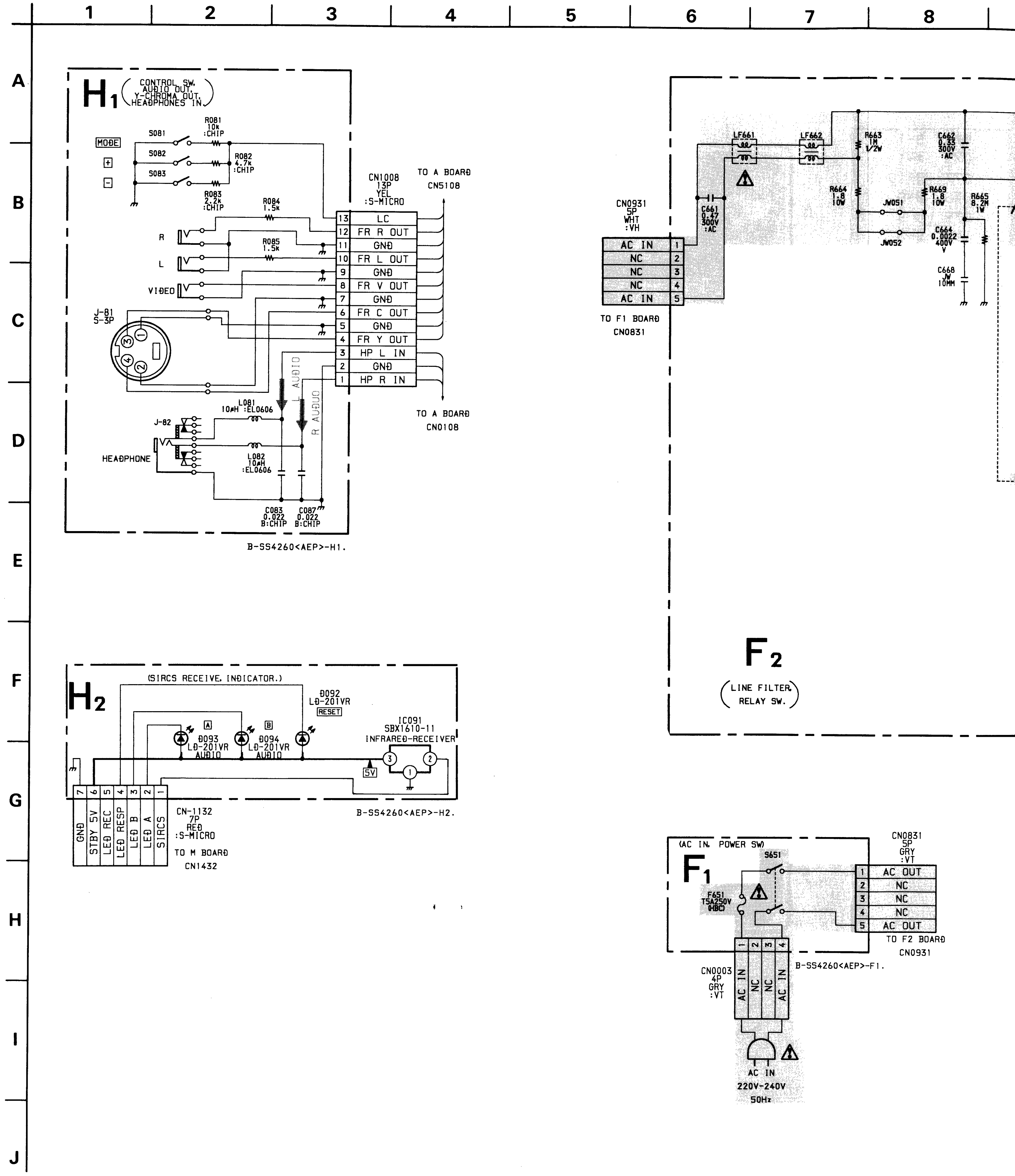
## 5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
  pF : μμF 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

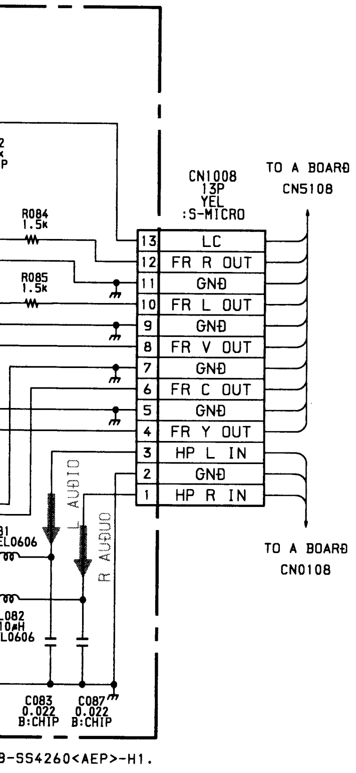
| |
|---|
| Pitch : 5mm |
| Rating electrical power : ¼W |

- Chip resistor is in 1/10W.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000KΩ
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ☐ : panel designation or adjustment for repair.
- All variable and adjustable resistors have charactristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ━━ : B + bus.
- ▬ ▬ : B − bus.
- ➡ : signal path.(RF)
- ⊥ : earth - ground
- ⏚ : earth - chassis

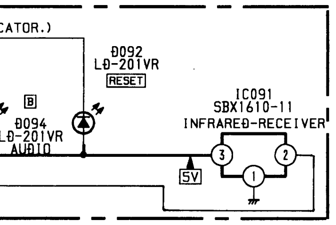

1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
H1
CONTROL SW.
AUDIO OUT.
Y-CHROMA OUT.
HEADPHONES IN.
MODE
+
−
S081
S082
S083
R081 10k :CHIP
R082 4.7k :CHIP
R083 2.2k :CHIP
R084 1.5k
R085 1.5k
R
L
VIDEO
J-81 S-3P
J-82
HEADPHONE
L081 10μH :EL0606
L082 10μH :EL0606
L AUDIO
R AUDIO
C083 0.022 B:CHIP
C087 0.022 B:CHIP
CN1008 13P YEL :S-MICRO
13 LC
12 FR R OUT
11 GND
10 FR L OUT
9 GND
8 FR V OUT
7 GND
6 FR C OUT
5 GND
4 FR Y OUT
3 HP L IN
2 GND
1 HP R IN
TO A BOARD CN5108
TO A BOARD CN0108
B-SS4260<AEP>-H1.
H2
(SIRCS RECEIVE. INDICATOR.)
D092 LD-201VR
RESET
A
D093 LD-201VR AUDIO
B
D094 LD-201VR AUDIO
IC091 SBX1610-11 INFRARED-RECEIVER
5V
7 GND
6 STBY 5V
5 LED REC
4 LED RESP
3 LED B
2 LED A
1 SIRCS
CN-1132 7P RED :S-MICRO
TO M BOARD CN1432
B-SS4260<AEP>-H2.
CN0931 5P WHT :VH
1 AC IN
2 NC
3 NC
4 NC
5 AC IN
TO F1 BOARD CN0831
C661 0.47 300V :AC
LF661
LF662
R663 1M 1/2W
R664 1.8 10W
JW051
JW052
R669 1.8 10W
C662 0.33 300V :AC
C664 0.0022 400V V
C668 JW 10MM
R665 8.2M 1W
F2
LINE FILTER. RELAY SW.
F1
(AC IN. POWER SW)
S651
F651 T5A250V (HBC)
CN0831 5P GRY :VT
1 AC OUT
2 NC
3 NC
4 NC
5 AC OUT
TO F2 BOARD CN0931
CN0003 4P GRY :VT
1 AC IN
2 NC
3 NC
4 AC IN
B-SS4260<AEP>-F1.
AC IN
220V-240V
50Hz

**H1** CONTROL SW, AUDIO OUT, Y-CHROMA OUT, HEADPHONE IN

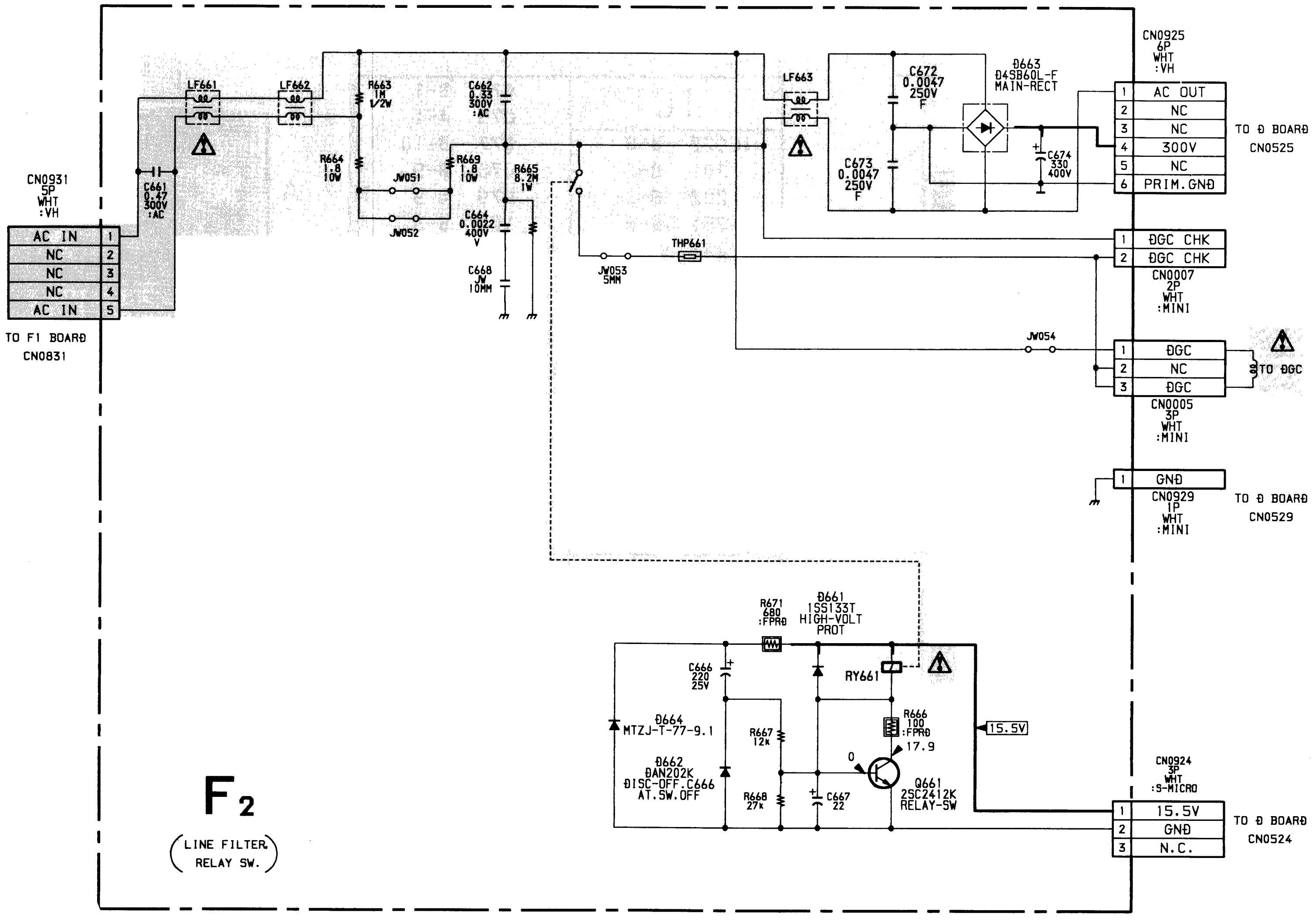
**H2** SIRCS RECEIVE INDICATOR


CN1008
13P
YEL
:S-MICRO
TO A BOARD
CN5108
R084
1.5k
R085
1.5k
13 LC
12 FR R OUT
11 GND
10 FR L OUT
9 GND
8 FR V OUT
7 GND
6 FR C OUT
5 GND
4 FR Y OUT
3 HP L IN
2 GND
1 HP R IN
L AUDIO
R AUDIO
TO A BOARD
CN0108
L0606
L082
10μH
L0606
C083
0.022
B:CHIP
C087
0.022
B:CHIP

B-SS4260<AEP>-H1.


CATOR.)
D092
LD-201VR
RESET
IC091
SBX1610-11
INFRARED-RECEIVER
D094
LD-201VR
AUDIO
5V

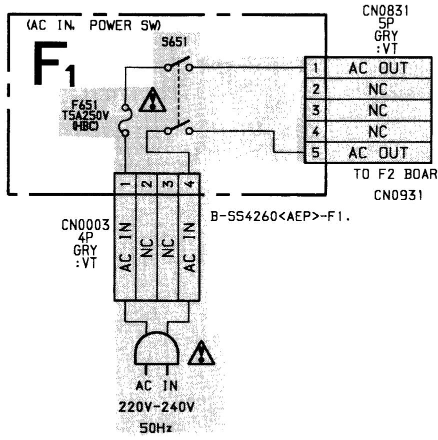
B-SS4260<AEP>-H2.


CN0931
5P
WHT
:VH
AC IN
NC
NC
NC
AC IN
TO F1 BOARD
CN0831
LF661
LF662
C661
0.47
300V
:AC
R663
1M
1/2W
C662
0.33
300V
:AC
R664
1.8
10W
JW051
JW052
R669
1.8
10W
R665
8.2M
1W
C664
0.0022
400V
C668
1M
10MM
JW053
5MM
THP661
LF663
C672
0.0047
250V
F
C673
0.0047
250V
F
D663
D4SB60L-F
MAIN-RECT
C674
330
400V
CN0925
6P
WHT
:VH
AC OUT
NC
NC
300V
NC
PRIM.GND
TO D BOARD
CN0525
DGC CHK
DGC CHK
CN0007
2P
WHT
:MINI
JW054
DGC
NC
DGC
CN0005
3P
WHT
:MINI
TO DGC
GND
CN0929
1P
WHT
:MINI
TO D BOARD
CN0529
R671
680
:FPRD
D661
1SS133T
HIGH-VOLT
PROT
RY661
C666
220
25V
D664
MTZJ-T-77-9.1
R667
12k
D662
DAN202K
DISC-OFF.C666
AT.SW.OFF
R668
27k
C667
22
R666
100
:FPRD
17.9
0
Q661
2SC2412K
RELAY-SW
15.5V
CN0924
3P
WHT
:S-MICRO
15.5V
GND
N.C.
TO D BOARD
CN0524

**F2**

(LINE FILTER, RELAY SW.)

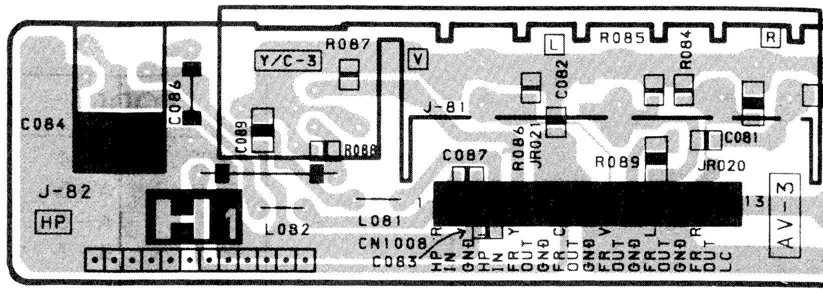
B-SS4260<AEP>-F2.


(AC IN, POWER SW)
S651
F651
T5A250V
(HBC)
CN0831
5P
GRY
:VT
AC OUT
NC
NC
NC
AC OUT
TO F2 BOARD
CN0931
CN0003
4P
GRY
:VT
AC IN
NC
NC
AC IN
AC IN
220V-240V
50Hz

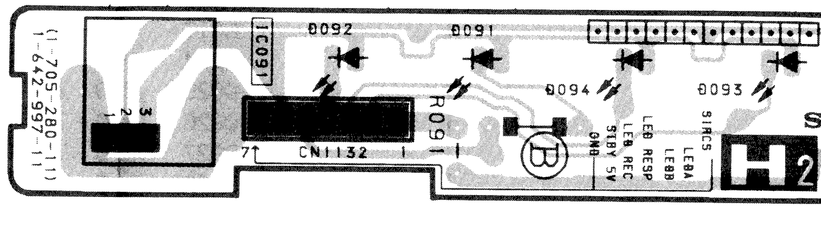
**F1**

B-SS4260<AEP>-F1.

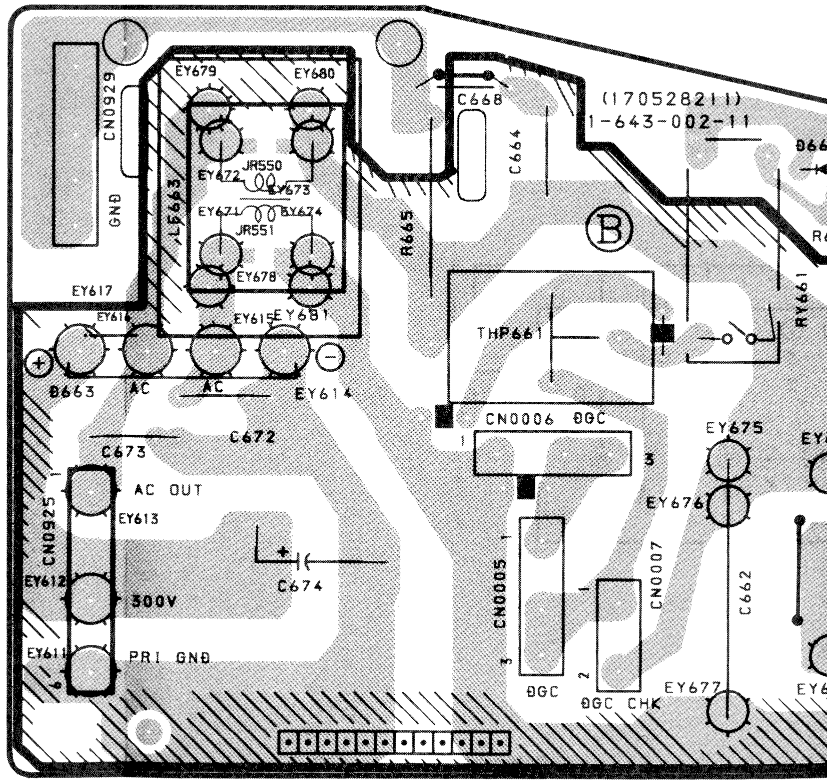
- H1 BOARD -

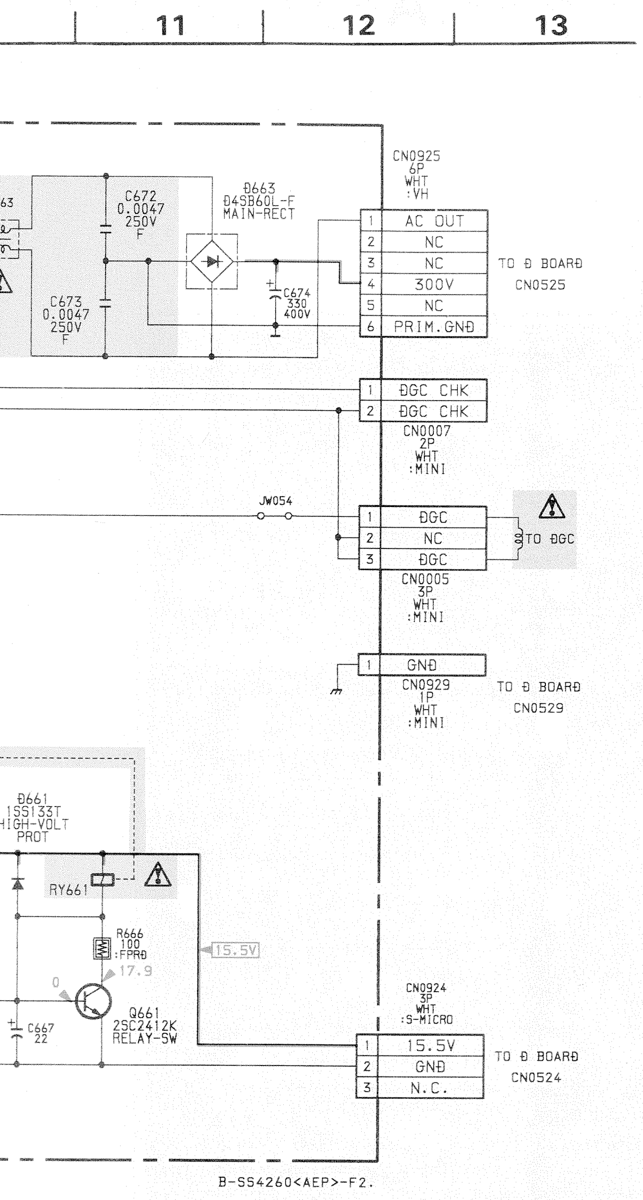

Y/C-3
R087
R085
R084
C084
C086
J-81
C082
C089
C087
R086
JR021
R089
C081
JR020
J-82
HP
L082
L081
CN1008
C083
AV-3
H1

- H2 BOARD -


1-705-280-11
(1-642-997-11)
IC091
D092
D091
D094
D093
R091
CN1132
B
SIRCS
LEDA
LEDB
H2

- F2 BOARD -


CN0929
GND
EY679
EY680
C668
(170528211)
1-643-002-11
C664
JR550
EY672
EY673
EY671
EY674
JR551
LF663
R665
B
EY678
EY617
EY616
EY615
EY681
THP661
D663
AC
AC
EY614
CN0006 DGC
C673
C672
AC OUT
EY613
CN0925
EY612
300V
C674
CN0005
CN0007
EY675
EY676
C662
EY611
PRI GND
DGC
DGC CHK
EY677
RY661


11
12
13
CN0925 6P WHT :VH
1 AC OUT
2 NC
3 NC
4 300V
5 NC
6 PRIM.GND
TO Ð BOARD CN0525
C672 0.0047 250V F
D663 D4SB60L-F MAIN-RECT
C673 0.0047 250V F
C674 330 400V
1 ÐGC CHK
2 ÐGC CHK
CN0007 2P WHT :MINI
JW054
1 ÐGC
2 NC
3 ÐGC
CN0005 3P WHT :MINI
TO ÐGC
1 GNÐ
CN0929 1P WHT :MINI
TO Ð BOARD CN0529
D661 1SS133T HIGH-VOLT PROT
RY661
R666 100 :FPRÐ
15.5V
17.9
0
C667 22
Q661 2SC2412K RELAY-SW
CN0924 3P WHT :S-MICRO
1 15.5V
2 GNÐ
3 N.C.
TO Ð BOARD CN0524
B-SS4260<AEP>-F2.

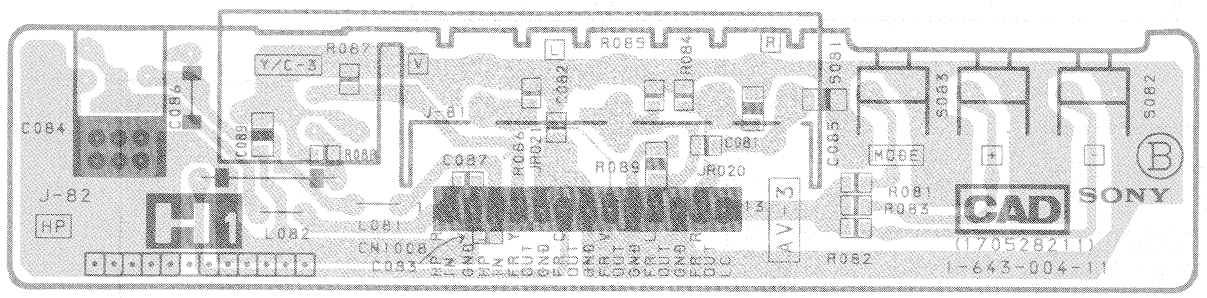
**H1** CONTROL SW, AUDIO OUT, Y-CHROMA OUT, HEADPHONE IN

**H2** SIRCS RECEIVER, INDICATOR

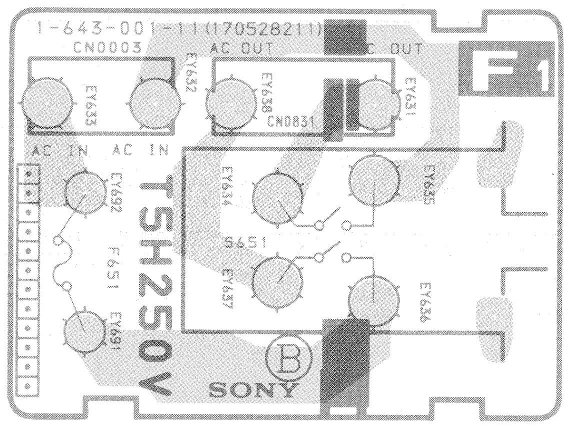
**F1** AC IN, POWER SW

**F2** LINE FILTER, RELAY SW

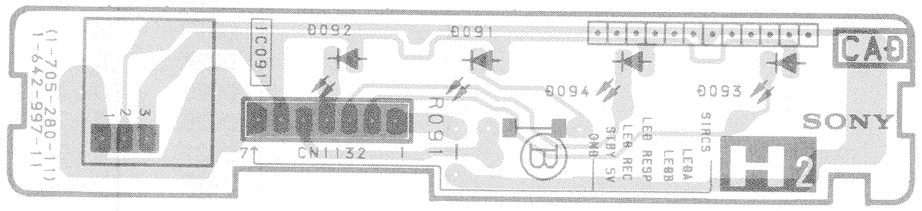
– H1 BOARD –


H1
Y/C-3
R087
R085
C084
C086
C089
R088
J-81
R084
C082
JR021
C087
R086
R089
C081
JR020
S081
S083
S082
C085
MODE
R081
R083
AV-3
J-82
HP
L082
L081
CN1008
C083
R082
CAD
SONY
(170528211)
1-643-004-11

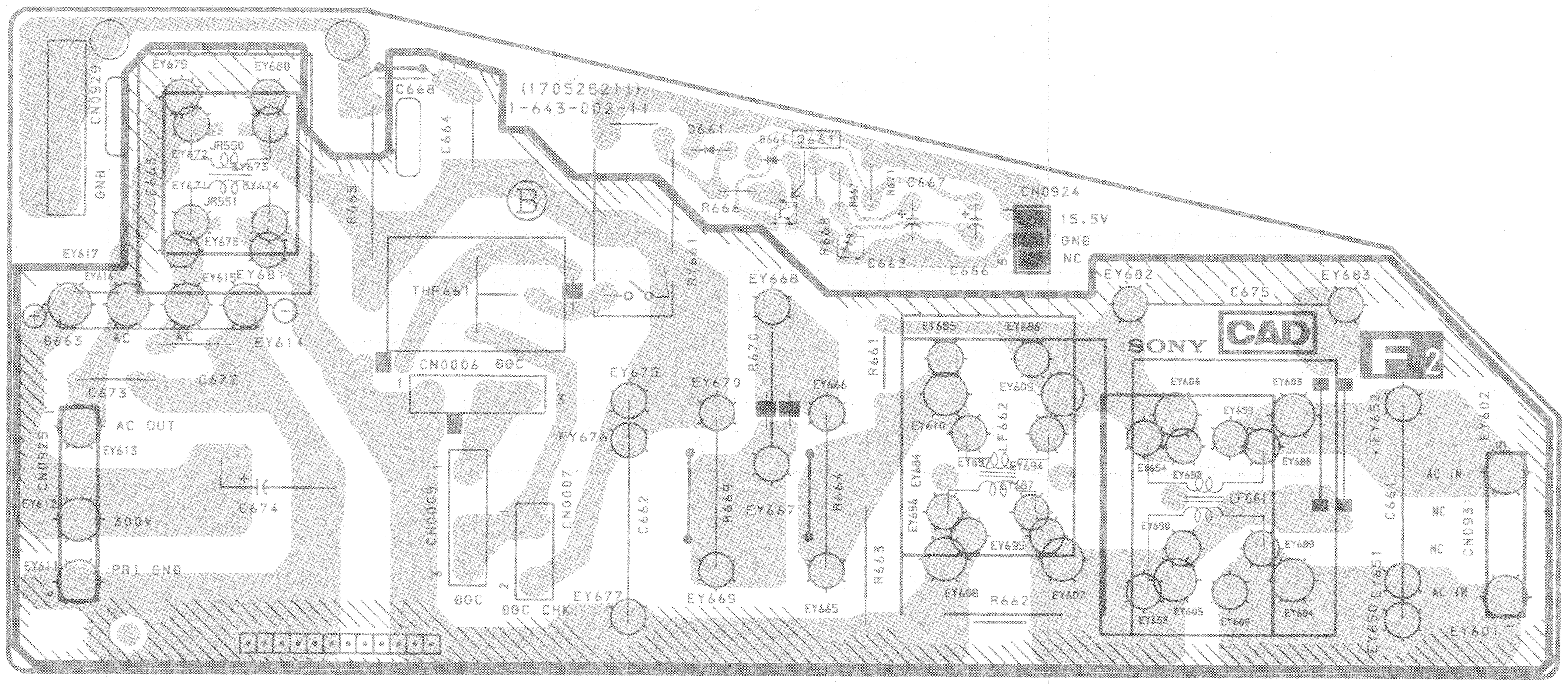
– F1 BOARD –


1-643-001-11(170528211)
CN0003
AC OUT
AC IN
EY633
EY632
EY638
CN0831
EY631
EY692
F651
EY691
EY634
EY635
S651
EY637
EY636
T5H250V
SONY
F1

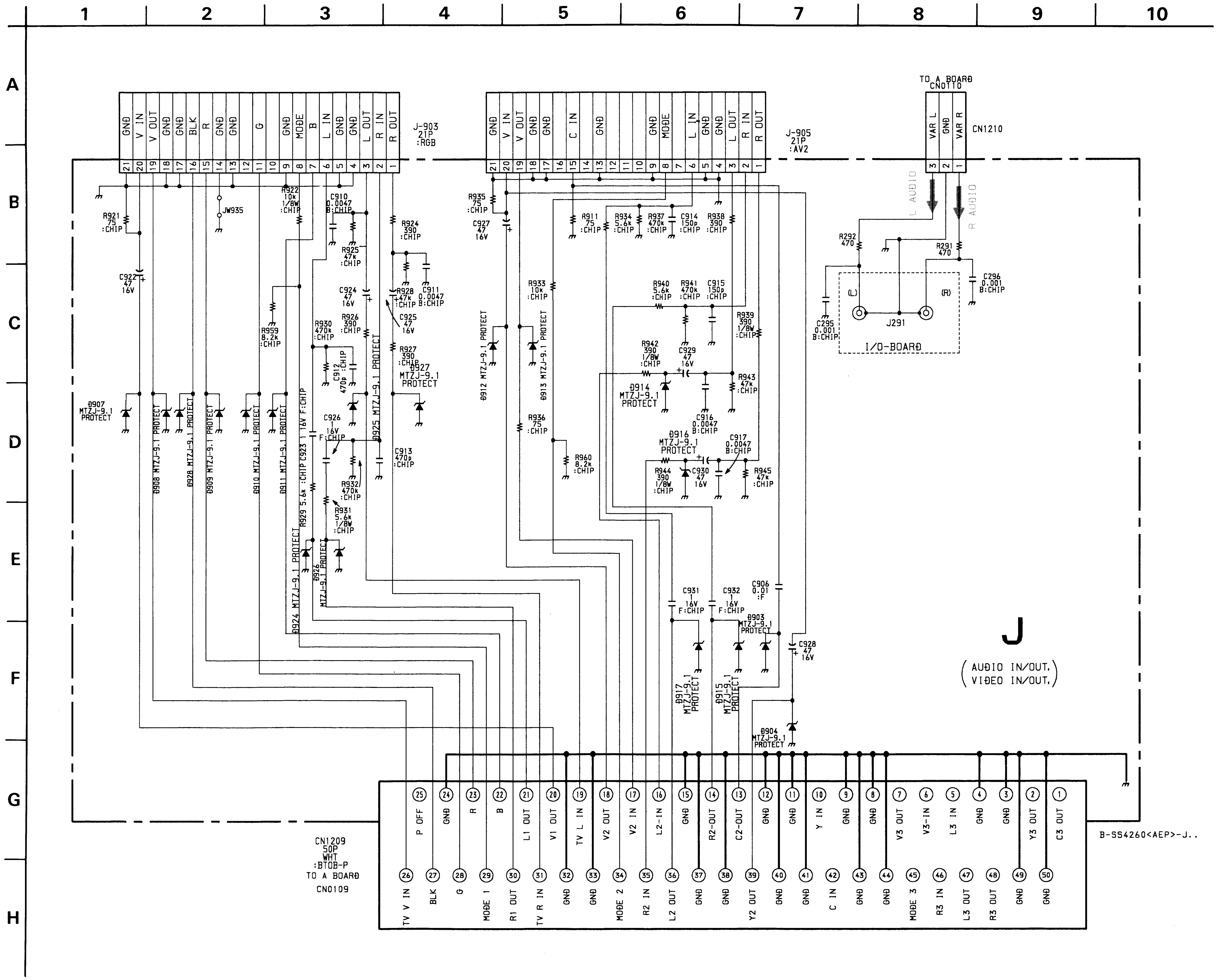
– H2 BOARD –


IC091
D092
D091
D094
D093
R091
CN1132
SIRCS
LED8A
LED8B
LED RESP
LED REC
STBY 5V
D08
CAD
SONY
H2
(1-705-280-11)
1-642-595-11

– F2 BOARD –

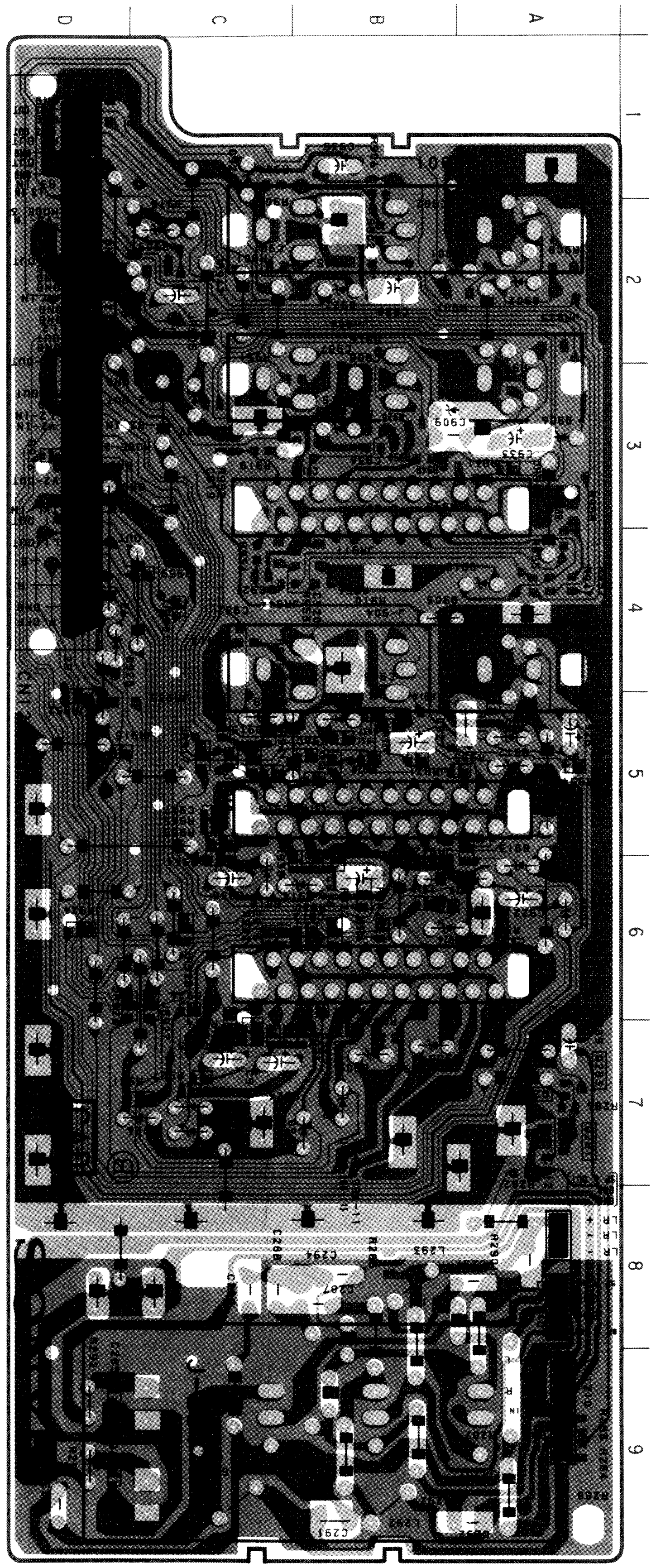

CN0929
GND
EY679
EY680
C668
(170528211)
1-643-002-11
C664
D661
R664
Q661
JR550
EY672
EY673
EY671
EY674
JR551
LF663
R665
R666
R667
R671
C667
CN0924
15.5V
GND
NC
R668
EY678
D662
C666
EY617
EY616
EY615
EY681
THP661
RY661
EY668
EY682
C675
EY683
D663
AC
AC
EY614
CN0006 DGC
EY675
EY670
R670
R661
EY666
EY685
EY686
SONY
CAD
F2
C673
C672
EY609
EY610
LF662
EY606
EY603
EY659
AC OUT
EY613
EY676
EY684
EY697
EY694
EY654
EY693
EY688
EY652
EY602
CN0925
EY612
300V
C674
CN0005
CN0007
C662
R669
EY667
R664
EY696
EY687
LF661
C661
AC IN
NC
NC
CN0931
EY690
EY695
EY689
EY611
PRI GND
DGC
DGC CHK
EY677
EY669
EY665
R663
EY608
R662
EY607
EY651
AC IN
EY653
EY605
EY660
EY604
EY650
EY601

**J** [ AUDIO IN/OUT, Y-CHROMA IN/OUT, VIDEO IN/OUT ] **A** [ TUNER, AUDIO, CONTROL, A AV SWITCH, RGB JUNGLE, Y/C PROCESSOR


1 2 3 4 5 6 7 8 9 10
A B C D E F G H
J-903 21P :RGB
J-905 21P :AV2
TO A BOARD CN0110
CN1210
VAR L GND VAR R
L AUDIO
R AUDIO
I/O-BOARD
J291
J
(AUDIO IN/OUT, VIDEO IN/OUT)
CN1209 50P WHT :BTOB-P TO A BOARD CN0109
B-SS4260<AEP>-J..
MTZJ-9.1 PROTECT
P OFF GND R B L1 OUT V1 OUT TV L IN V2 OUT V2 IN L2-IN GND R2-OUT C2-OUT GND GND Y IN GND GND V3 OUT V3-IN L3 IN GND GND Y3 OUT C3 OUT
TV V IN BLK G MODE 1 R1 OUT TV R IN GND GND MODE 2 R2 IN L2 OUT GND GND Y2 OUT GND GND C IN GND GND MODE 3 R3 IN L3 OUT R3 OUT GND GND

| DIODE | |
|---|---|
| D903 | B-4 |
| D904 | A-5 |
| D907 | A-6 |
| D908 | B-7 |
| D909 | B-7 |
| D910 | B-7 |
| D911 | B-7 |
| D912 | A-5 |
| D913 | A-6 |
| D914 | B-6 |
| D915 | C-5 |
| D916 | C-6 |
| D917 | B-5 |
| D924 | B-6 |
| D925 | C-7 |
| D926 | C-7 |
| D927 | C-7 |
| D928 | D-4 |

**- J BOARD -**

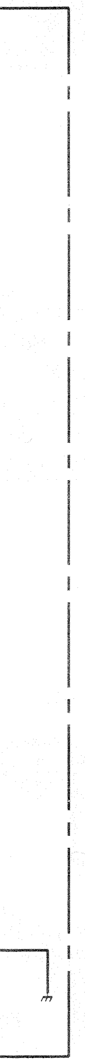

D C B A
1 2 3 4 5 6 7 8 9

Note :

- ▨ : Pattern from the side which enables seeing.
- ▩ : Pattern of the rear side.

**J** AUDIO IN/OUT, Y-CHROMA IN/OUT, VIDEO IN/OUT **A** TUNER, AUDIO, CONTROL, AUDIO AMP AV SWITCH, RGB JUNGLE, Y/C PROCESSOR

10



B-SS4260<AEP>-J..

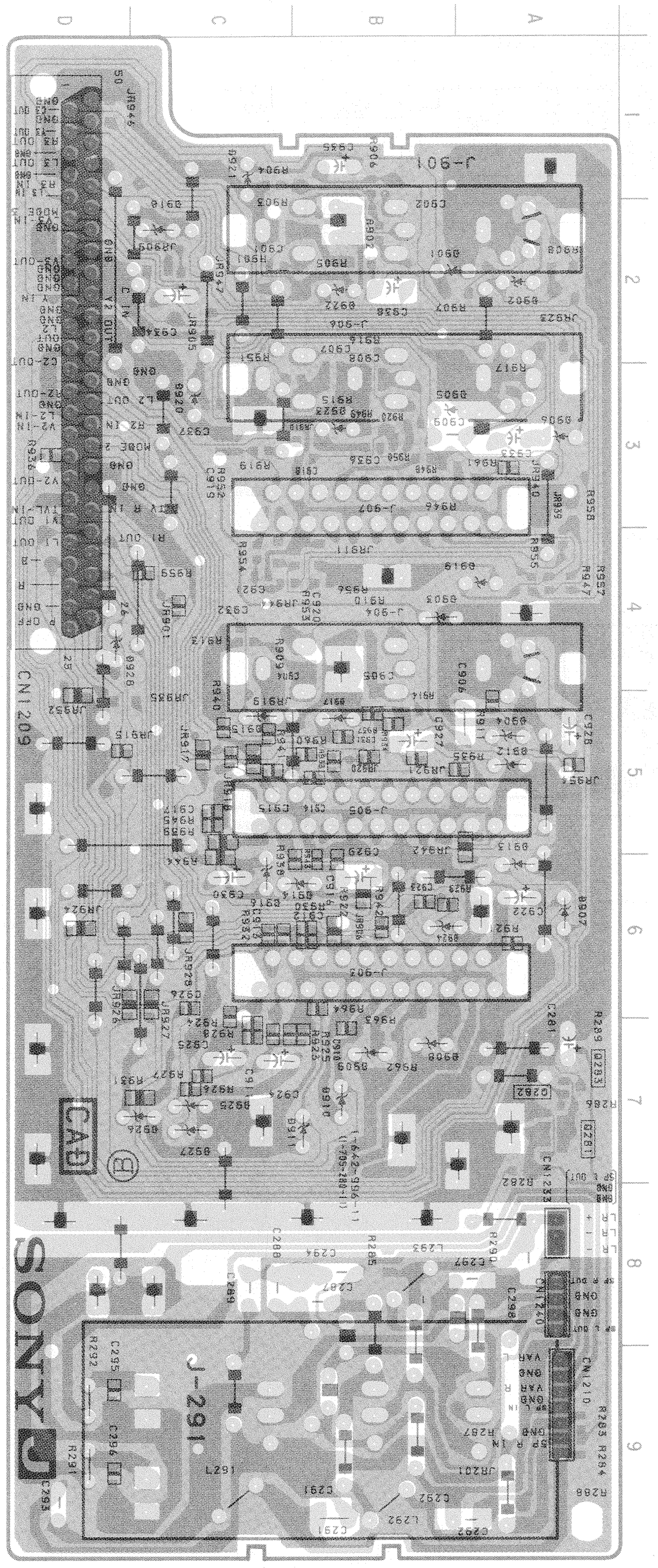
| DIODE | |
|---|---|
| D903 | B-4 |
| D904 | A-5 |
| D907 | A-6 |
| D908 | B-7 |
| D909 | B-7 |
| D910 | B-7 |
| D911 | B-7 |
| D912 | A-5 |
| D913 | A-6 |
| D914 | B-6 |
| D915 | C-5 |
| D916 | C-6 |
| D917 | B-5 |
| D924 | B-6 |
| D925 | C-7 |
| D926 | C-7 |
| D927 | C-7 |
| D928 | D-4 |

te :

▨ : Pattern from the side which enables seeing.

▨ : Pattern of the rear side.

– J BOARD –

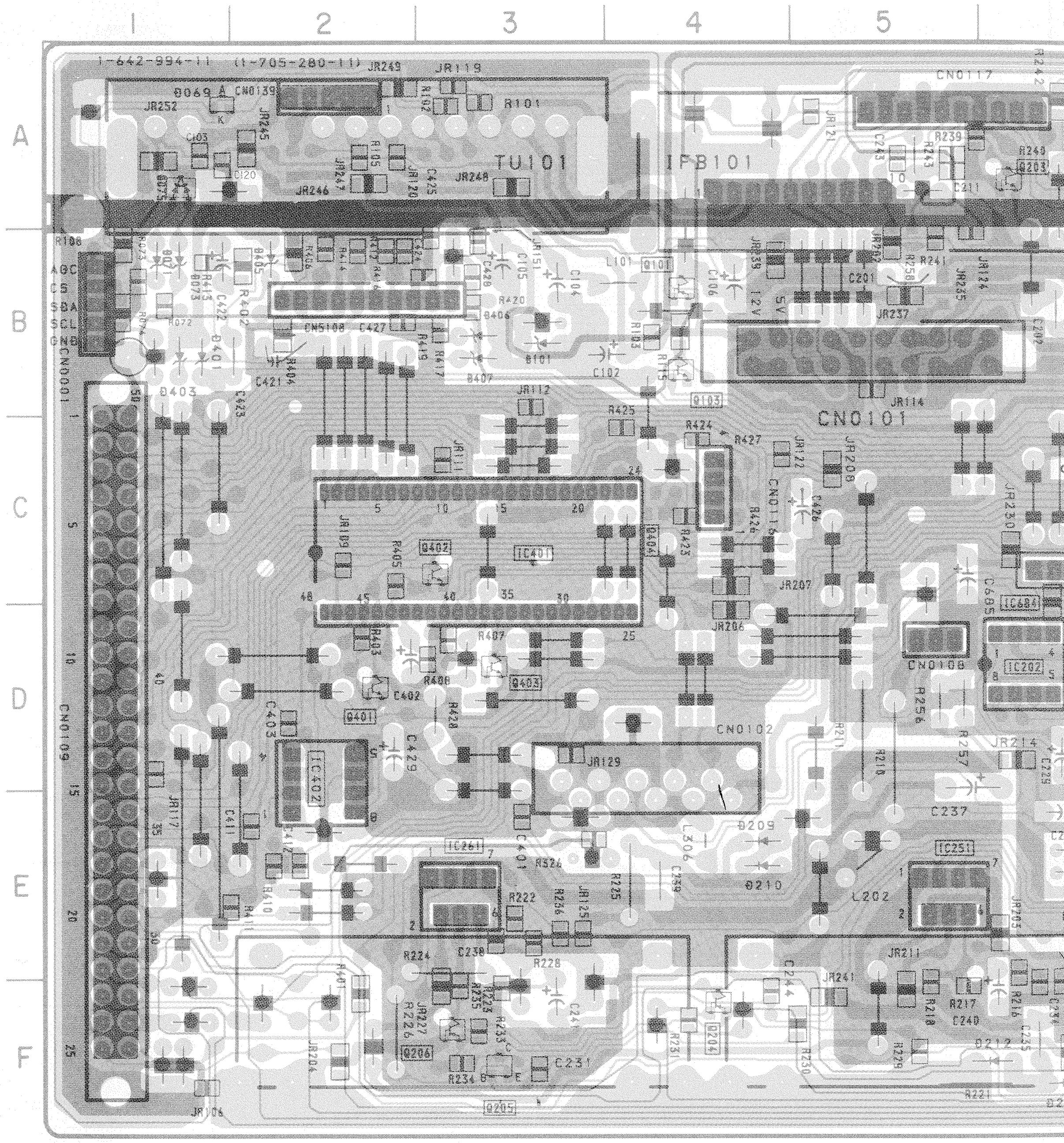

D
C
B
A
1
2
3
4
5
6
7
8
9
J-901
J-904
J-905
J-906
J-907
J-291
CN1209
CN1210
CN1240
CAD
SONY
L291
L292
L293

| IC | |
|---|---|
| IC072 | B-8 |
| 201 | D-7 |
| 202 | D-6 |
| 251 | E-5 |
| 261 | E-3 |
| 301 | A-10 |
| 302 | A-13 |
| 304 | C-13 |
| 401 | C-3 |
| 402 | D-2 |
| 681 | E-12 |
| 683 | F-11 |
| 684 | C-6 |

| TRANSISTOR | |
|---|---|
| Q071 | F-12 |
| 101 | B-4 |
| 102 | A-9 |
| 103 | B-4 |
| 201 | E-6 |
| 202 | E-6 |
| 203 | A-6 |
| 204 | F-4 |
| 205 | F-3 |
| 206 | F-3 |
| 207 | B-8 |
| 209 | F-10 |
| 303 | A-9 |
| 304 | E-13 |
| 306 | E-12 |
| 308 | D-12 |
| 309 | D-11 |
| 311 | D-10 |
| 312 | D-10 |
| 401 | D-2 |
| 402 | C-3 |
| 403 | D-3 |
| 581 | C-11 |
| 582 | C-11 |
| 610 | F-12 |
| 611 | F-12 |
| 683 | F-11 |

| DIODE | |
|---|---|
| D068 | B-9 |
| 069 | A-1 |
| 071 | B-1 |
| 073 | B-1 |
| 075 | A-1 |
| 077 | B-10 |
| 078 | B-9 |
| 079 | B-9 |
| 101 | B-3 |
| 205 | A-9 |
| 206 | F-10 |
| 207 | F-10 |
| 208 | F-10 |
| 209 | E-4 |
| 210 | E-4 |
| 211 | F-6 |
| 212 | F-6 |
| 213 | F-7 |
| 301 | B-11 |
| 302 | A-12 |
| 303 | C-11 |
| 304 | B-13 |
| 305 | E-11 |
| 306 | E-13 |
| 307 | E-13 |
| 308 | E-13 |
| 310 | B-10 |
| 311 | D-12 |
| 381 | C-11 |
| 401 | B-1 |
| 403 | B-1 |
| 405 | B-2 |
| 406 | B-3 |
| 407 | B-3 |
| 571 | C-12 |
| 681 | F-11 |
| 682 | F-11 |

– A BOARD –


1
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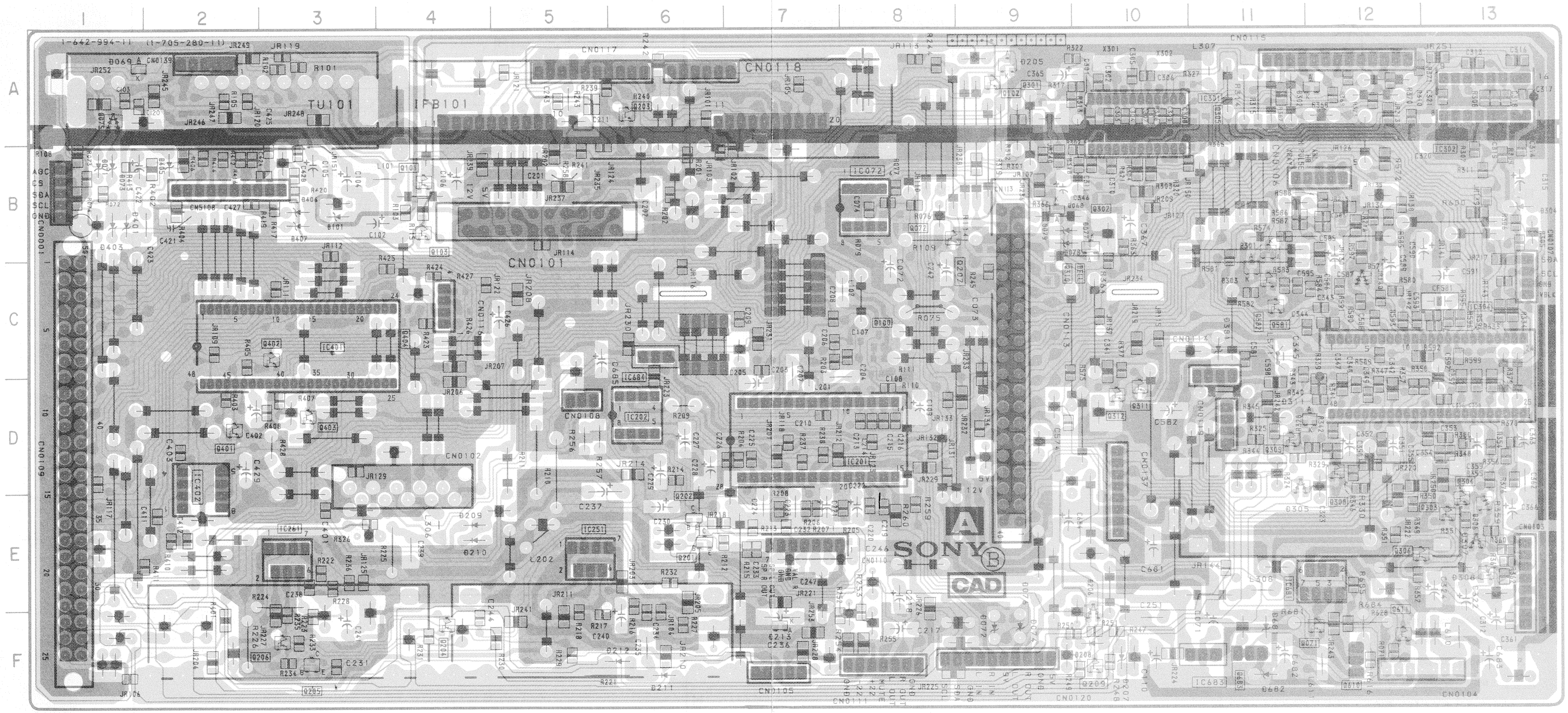
5
A
B
C
D
E
F
1-642-994-11
(1-705-280-11)
TU101
IFB101
CN0117
CN0101
CN0102
CN0108
CN0109
CN5108
IC401
IC402
IC261
IC251
IC202
IC684
AGC
CS
SBA
SCL
GND

– A BOARD –

| | |
|---|---|
| 073 | B-1 |
| 075 | A-1 |
| 077 | B-10 |
| 078 | B-9 |
| 079 | B-9 |
| 01 | B-3 |
| 205 | A-9 |
| 206 | F-10 |
| 207 | F-10 |
| 208 | F-10 |
| 209 | E-4 |
| 210 | E-4 |
| 211 | F-6 |
| 212 | F-6 |
| 213 | F-7 |
| 301 | B-11 |
| 302 | A-12 |
| 303 | C-11 |
| 304 | B-13 |
| 305 | E-11 |
| 306 | E-13 |
| 307 | E-13 |
| 308 | E-13 |
| 310 | B-10 |
| 311 | D-12 |
| 381 | C-11 |
| 401 | B-1 |
| 403 | B-1 |
| 405 | B-2 |
| 406 | B-3 |
| 407 | B-3 |
| 571 | C-12 |
| 681 | F-11 |
| 682 | F-11 |


1
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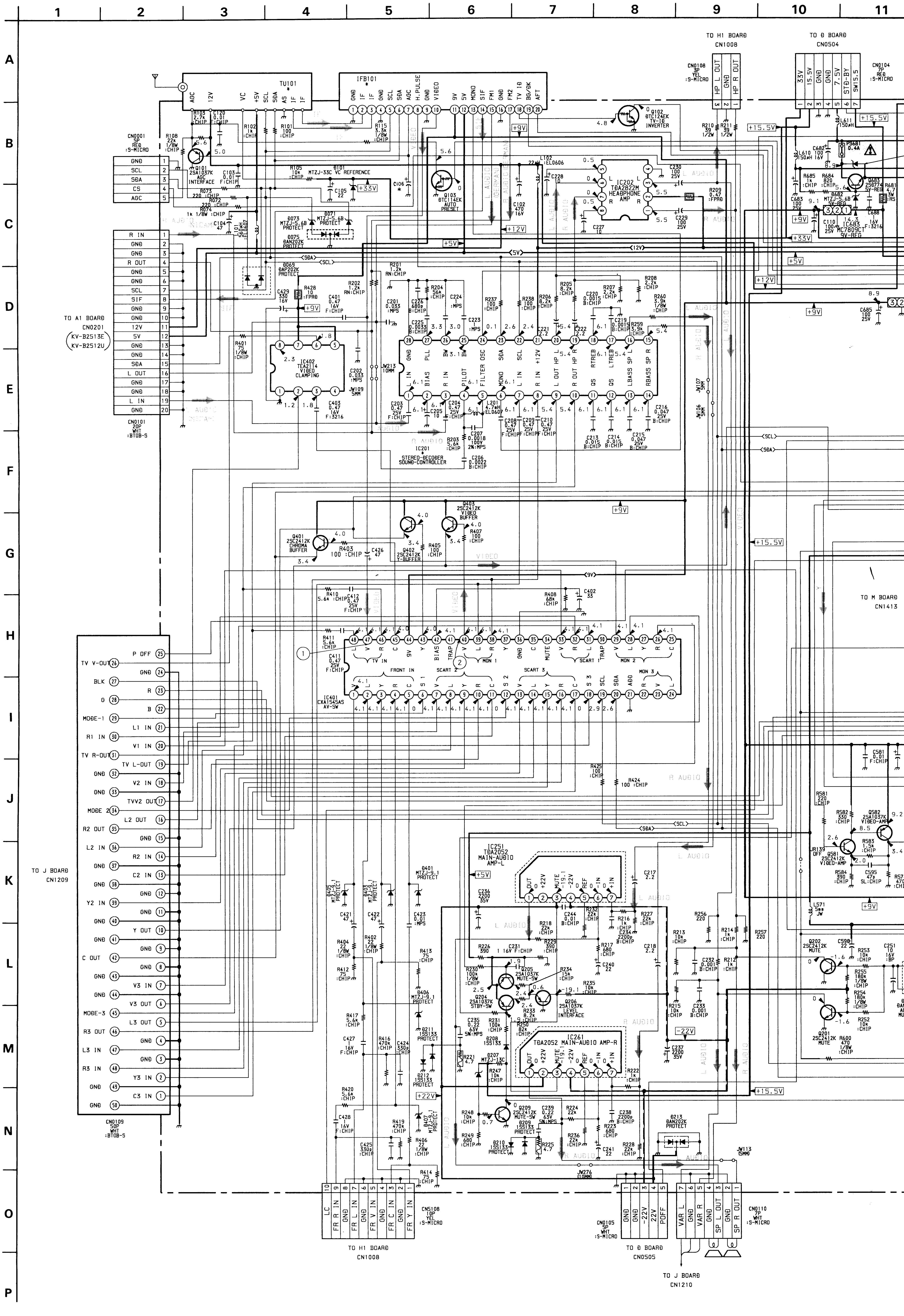
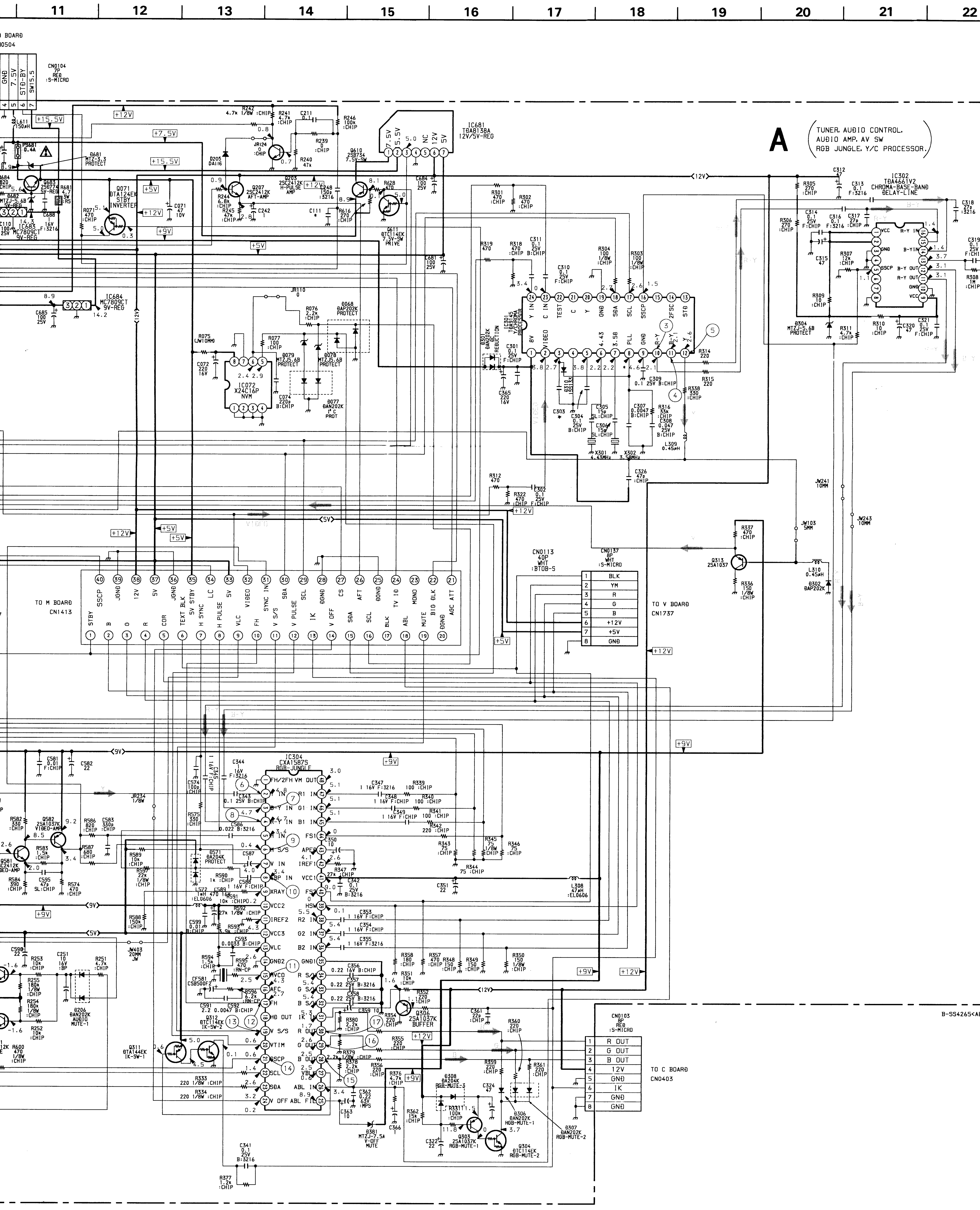
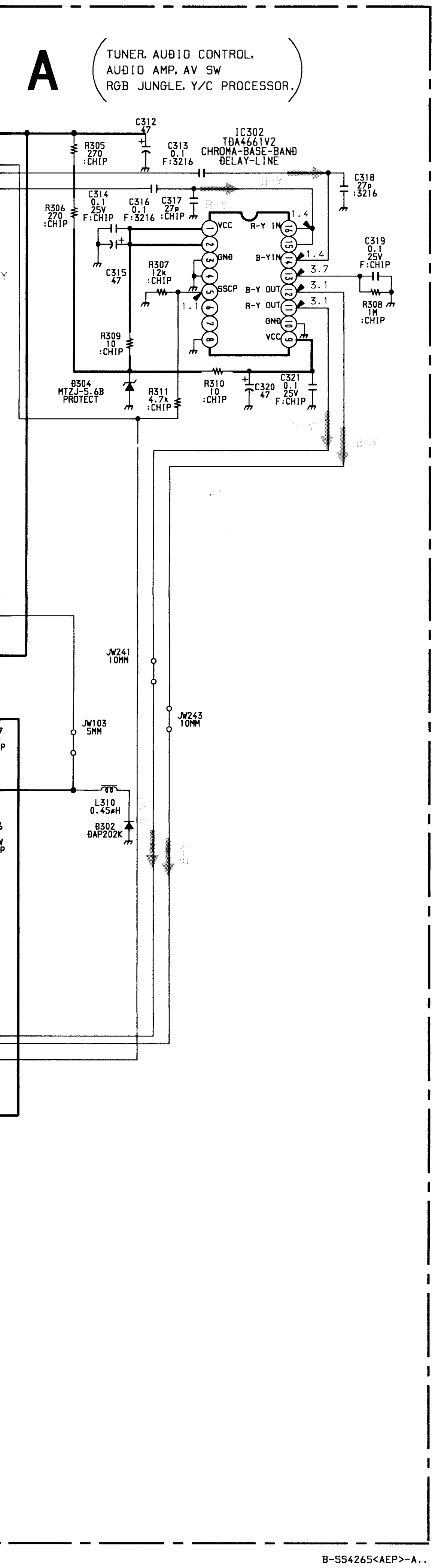
10
11
12
13
A
B
C
D
E
F
1-642-994-11 (1-705-280-11)
TU101
IFB101
CN0117
CN0118
CN0115
CN0101
CN0102
CN0108
CN0109
CN0105
CN0111
CN0120
CN0104
CN0113
CN0137
IC401
IC402
IC202
IC201
IC251
IC261
IC072
IC301
IC302
IC683
A
SONY
CAD

Note :

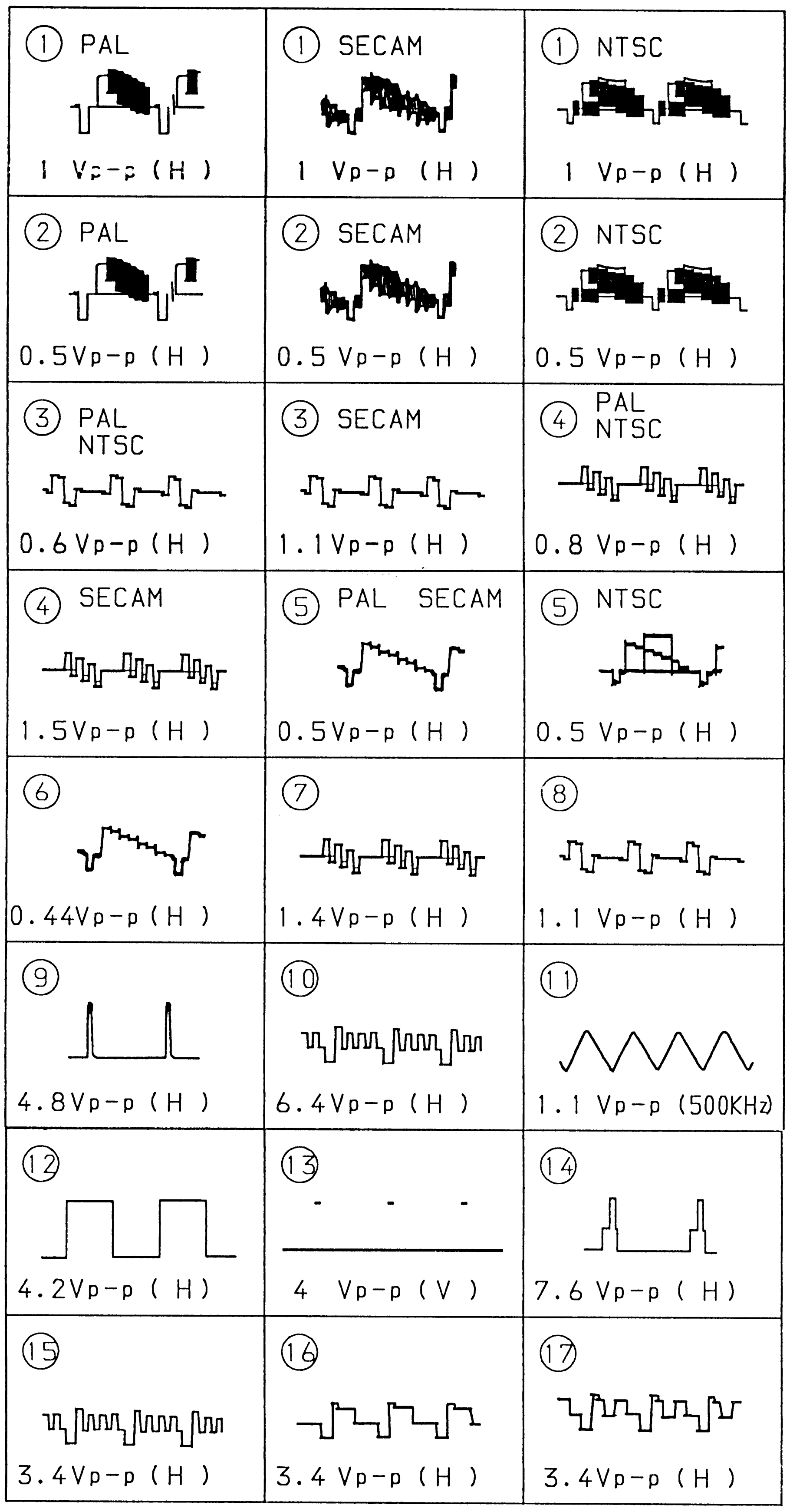
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

TU101
IFB101
TO H1 BOARD CN1008
TO Ð BOARD CN0504
CN0108 3P YEL :S-MICRO
CN0104 7P RED :S-MICRO
CN0001 5P RED :S-MICRO
Q101 2SA1037K AGC INTERFACE
Q102 DTC124EK TV-10 INVERTER
Q103 DTC114EK AUTO PRESET
IC202 TDA2822M HEADPHONE AMP
IC683 MC7809CT 9V-REG
Q683 2SD774 5V-REG
D101 MTZJ-33C VC REFERENCE
D073 MTZJ-5.6B PROTECT
D071 MTZJ-5.6B PROTECT
D075 DAN202K PROTECT
D069 DAP202K PROTECT
TO A1 BOARD CN0201 (KV-B2513E KV-B2512U)
CN0101 20P WHT :BTOB-S
IC402 TDA2114 VIDEO CLAMPING
IC201 STEREO-DECODER SOUND-CONTROLLER
Q401 2SC2412K CHROMA BUFFER
Q402 2SC2412K Y-BUFFER
Q403 2SC2412K VIDEO BUFFER
IC401 CXA1545AS AV-SW
TO M BOARD CN1413
TO J BOARD CN1209
CN0109 50P WHT :BTOB-S
IC251 TDA2052 MAIN-AUDIO AMP-L
IC261 TDA2052 MAIN-AUDIO AMP-R
Q205 2SA1037K MUTE-SW
Q204 2SA1037K STBY-SW
Q206 2SA1037K LEVEL INTERFACE
Q209 2SC2412K MUTE-SW
Q582 2SA1037K VIDEO-AMP
Q581 2SC2412K VIDEO-AMP
Q202 2SC2412K MUTE
Q201 2SC2412K MUTE
D213 DAN202K PROTECT
CN5108 10P YEL :S-MICRO
TO H1 BOARD CN1008
CN0105 5P WHT :S-MICRO
TO Ð BOARD CN0505
CN0110 7P WHT :S-MICRO
TO J BOARD CN1210
+15.5V
+33V
+12V
+9V
+5V
-22V
+22V
L AUDIO
R AUDIO
VIDEO
SDA
SCL


11
12
13
14
15
16
17
18
19
20
21
22
A
TUNER, AUDIO CONTROL, AUDIO AMP, AV SW RGB JUNGLE, Y/C PROCESSOR.
IC681 TDA8138A 12V/5V-REG
IC684 MC7809CT 9V-REG
IC683 MC7809CT 9V-REG
IC072 X24C16P NVM
IC301 TDA9145 Y/C(MEMORY) PROCESSOR
IC302 TDA4661V2 CHROMA-BASE-BAND DELAY-LINE
IC304 CXA1587S RGB-JUNGLE
Q071 DTA124EK STBY INVERTER
Q207 2SC2412K AFT-AMP
Q203 2SC2412K H-PULSE AMP
Q610 2SB734 7.5V-SW
Q611 DTC114EK 7.5V-SW DRIVE
Q313 2SA1037
Q306 2SA1037K BUFFER
Q303 2SA1037K RGB-MUTE-1
Q304 DTC114EK RGB-MUTE-2
Q311 DTA144EK IK-SW-1
Q312 DTC114EK IK-SW-2
Q582 2SA1037K VIDEO-AMP
Q581 2SC2412K VIDEO-AMP
CN0104 7P RED :S-MICRO
CN0113 40P WHT :BTOB-S
TO M BOARD CN1413
CN0137 8P WHT :S-MICRO
TO V BOARD CN1737
1 BLK
2 YM
3 R
4 G
5 B
6 +12V
7 +5V
8 GND
CN0103 8P RED :S-MICRO
TO C BOARD CN0403
1 R OUT
2 G OUT
3 B OUT
4 12V
5 GND
6 IK
7 GND
8 GND
SSCP JGND 12V 5V JGND 5V STBY LC 5V VIDEO SYNC IN SDA SCL DGND CS AFT DGND TV IO MONO BIG BLK AGC ATT
STBY B G R COR TEXT BLK H SYNC H PULSE VLC FH V S/S V PULSE IK V OFF SDA SCL BLK ABL MUTE DGND
+12V
+15.5V
+7.5V
+5V
+9V
B-SS4265


A
TUNER, AUDIO CONTROL,
AUDIO AMP, AV SW
RGB JUNGLE, Y/C PROCESSOR.
IC302
TDA4661V2
CHROMA-BASE-BAND
DELAY-LINE
C312 47
R305 270 :CHIP
C313 0.1 F:3216
C318 27p :3216
C314 0.1 25V F:CHIP
C316 0.1 F:3216
C317 27p :CHIP
R306 270 :CHIP
B-Y
R-Y
VCC
R-Y IN
GND
B-Y IN
SSCP
B-Y OUT
R-Y OUT
GND
VCC
1.4
1.4
3.7
3.1
3.1
1.1
C315 47
R307 12k :CHIP
C319 0.1 25V F:CHIP
R308 1M :CHIP
R309 10 :CHIP
D304 MTZJ-5.6B PROTECT
R311 4.7k :CHIP
R310 10 :CHIP
C320 47
C321 0.1 25V F:CHIP
JW241 10MM
JW103 5MM
JW243 10MM
L310 0.45μH
D302 DAP202K
B-SS4265<AEP>-A..

**• WAVEFORMS A BOARD**

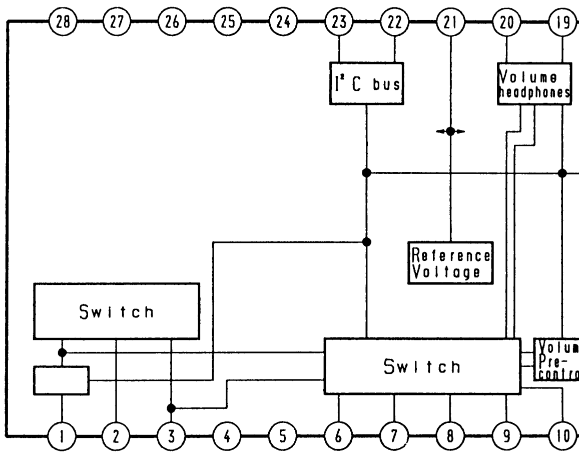

① PAL 1 Vp-p (H)
① SECAM 1 Vp-p (H)
① NTSC 1 Vp-p (H)
② PAL 0.5Vp-p (H)
② SECAM 0.5 Vp-p (H)
② NTSC 0.5 Vp-p (H)
③ PAL NTSC 0.6Vp-p (H)
③ SECAM 1.1Vp-p (H)
④ PAL NTSC 0.8 Vp-p (H)
④ SECAM 1.5Vp-p (H)
⑤ PAL SECAM 0.5Vp-p (H)
⑤ NTSC 0.5 Vp-p (H)
⑥ 0.44Vp-p (H)
⑦ 1.4Vp-p (H)
⑧ 1.1 Vp-p (H)
⑨ 4.8Vp-p (H)
⑩ 6.4Vp-p (H)
⑪ 1.1 Vp-p (500KHz)
⑫ 4.2Vp-p (H)
⑬ 4 Vp-p (V)
⑭ 7.6 Vp-p (H)
⑮ 3.4Vp-p (H)
⑯ 3.4 Vp-p (H)
⑰ 3.4Vp-p (H)

As to the voltage value shown by the mark ※ on the Schematic Diagram, see another list.

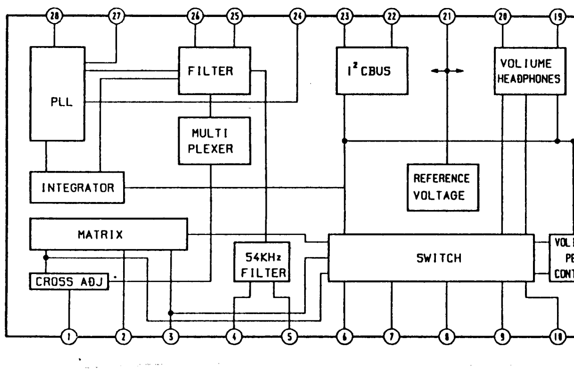
| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 |
|---|---|---|---|---|
| IC301 ⑧ | 5.0 | 4.6 | 5.0 | 5.0 |

| | KV-B2511D<br>KV-B2511A<br>KV-B2511K | KV-B2511B | KV-B2513E | KV-B2512U |
|---|---|---|---|---|
| C106 | 4.7/50V | 10/50V | 4.7/50V | 4.7/50V |
| C111 | – | 0.001/50V | – | – |
| CN0101 | – | – | 20P | 20P |
| IC201 | TDA6612 | TDA6612 | TDA6612 | TDA6622 |
| IFB101 | IFH-389 | IFH-389F | IFH-389 | IFH-395 |
| TU101 | UV-916H | UV-916H | UV-916H | U-944C |

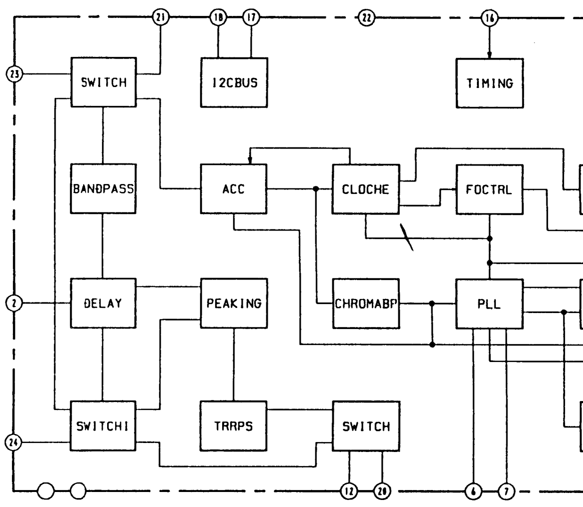
**• A BOARD IC201 TDA6622 (KV-B2512U only)**


28
27
26
25
24
23
22
21
20
19
I²C bus
Volume headphones
Reference Voltage
Switch
Switch
Volume Pre-contro
1
2
3
4
5
6
7
8
9
10

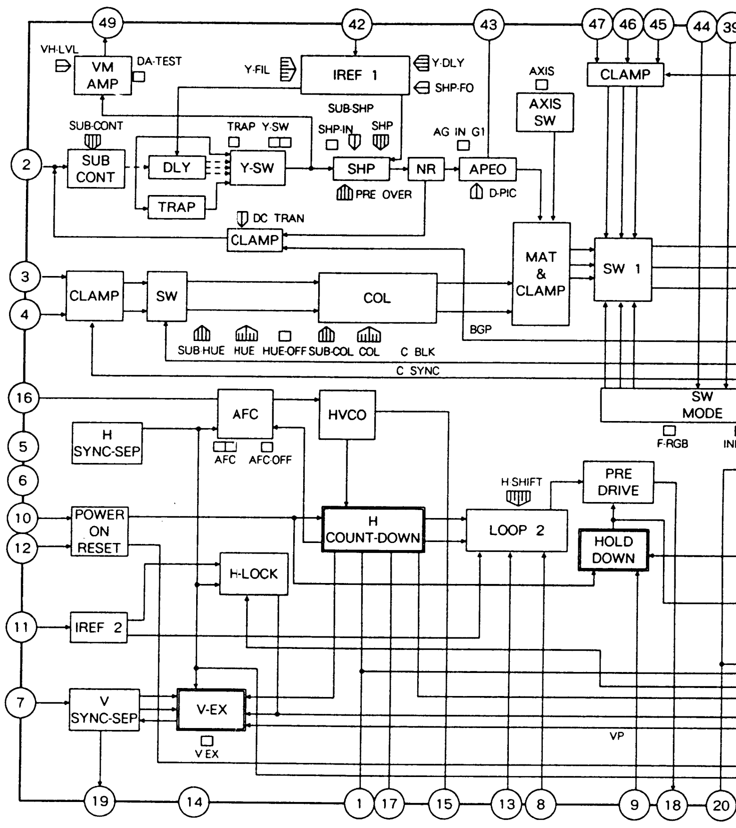
**• A BOARD IC201 TDA6612**


PLL
FILTER
MULTI PLEXER
I²CBUS
VOLUME HEADPHONES
REFERENCE VOLTAGE
INTEGRATOR
MATRIX
CROSS ADJ
54KHz FILTER
SWITCH

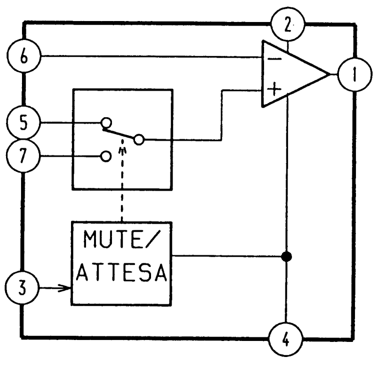
**• A BOARD IC301 TDA9145**


SWITCH
I2CBUS
TIMING
BANDPASS
ACC
CLOCHE
FOCTRL
DELAY
PEAKING
CHROMABP
PLL
SWITCHI
TRRPS
SWITCH

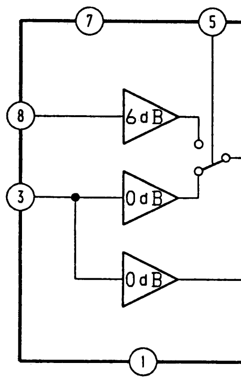
**• A BOARD IC304 CXA1587S**


VH-LVL
VM AMP
DA-TEST
Y-FIL
IREF 1
Y-DLY
SHP-FO
SUB-SHP
SUB-CONT
SUB CONT
TRAP Y-SW
DLY
Y-SW
TRAP
SHP-IN
SHP
SHP
NR
PRE OVER
AG IN G1
APEO
D-PIC
AXIS
AXIS SW
CLAMP
DC TRAN
CLAMP
MAT & CLAMP
SW 1
CLAMP
SW
COL
SUB-HUE
HUE
HUE-OFF
SUB-COL
COL
C BLK
BGP
C SYNC
AFC
HVCO
SW MODE
F-RGB
H SYNC-SEP
AFC
AFC-OFF
H-SHIFT
PRE DRIVE
POWER ON RESET
H COUNT-DOWN
LOOP 2
HOLD DOWN
H-LOCK
IREF 2
V SYNC-SEP
V-EX
V EX
VP

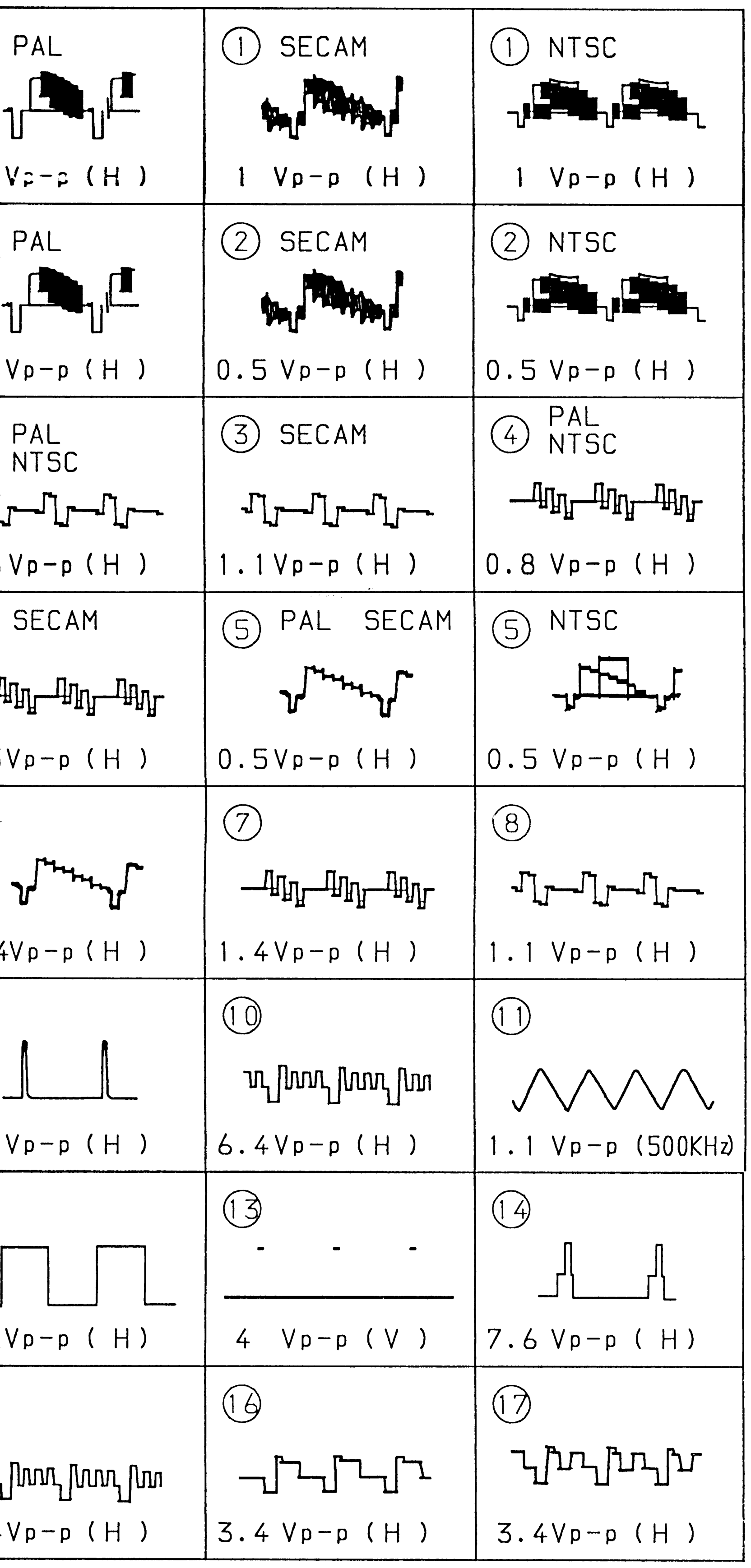
**• A BOARD IC251 TDA2052**


MUTE/
ATTESA

**• A BOARD IC402 TE**



## EFORMS A BOARD

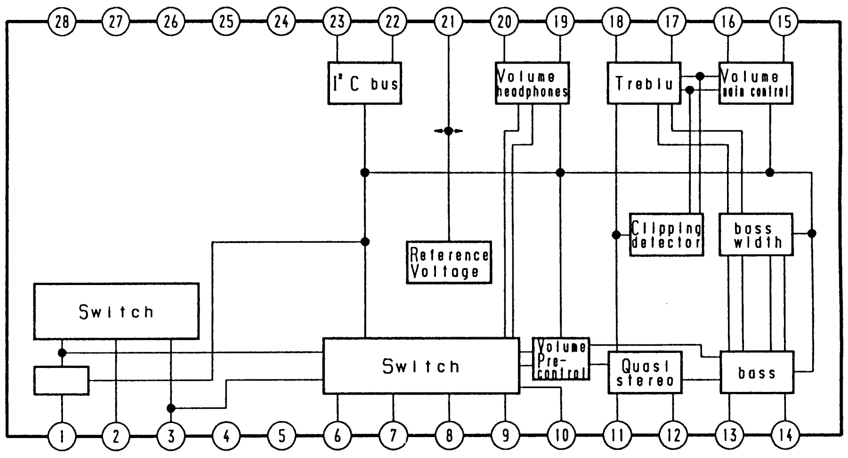


the voltage value shown by the
※ on the Schematic Diagram,
nother list.

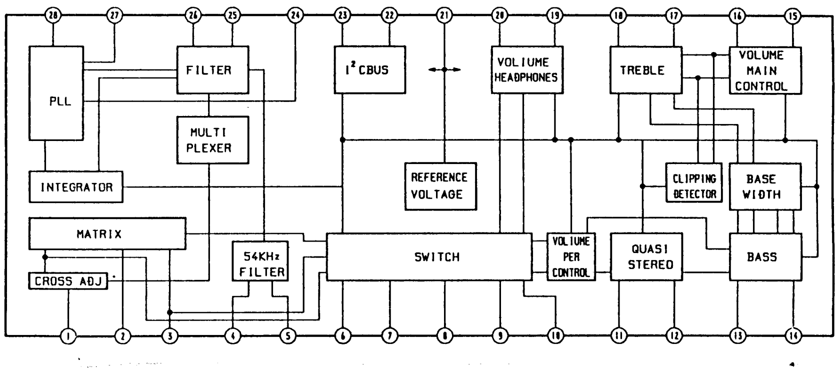
| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 |
|---|---|---|---|---|
| 01 ⑧ | 5.0 | 4.6 | 5.0 | 5.0 |

| | KV-B2511D<br>KV-B2511A<br>KV-B2511K | KV-B2511B | KV-B2513E | KV-B2512U |
|---|---|---|---|---|
| 6 | 4.7/50V | 10/50V | 4.7/50V | 4.7/50V |
| 1 | – | 0.001/50V | – | – |
| 01 | – | – | 20P | 20P |
| 1 | TDA6612 | TDA6612 | TDA6612 | TDA6622 |
| 01 | IFH-389 | IFH-389F | IFH-389 | IFH-395 |
| 01 | UV-916H | UV-916H | UV-916H | U-944C |

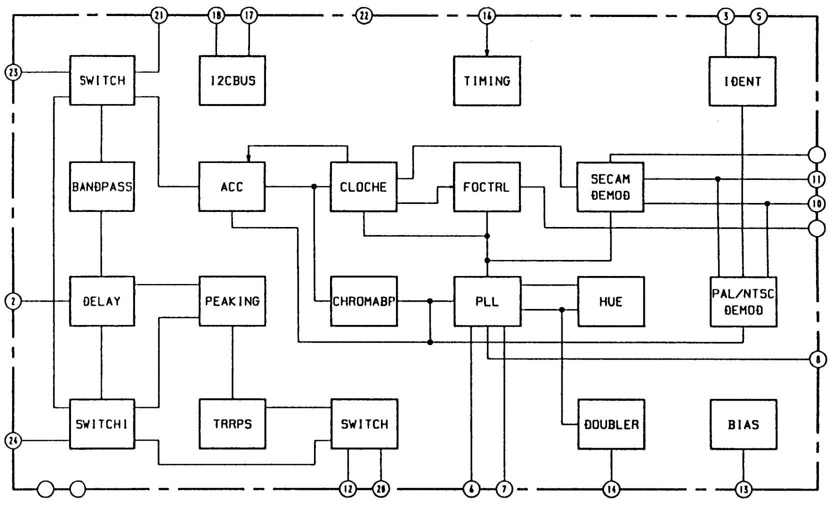
### • A BOARD IC201 TDA6622 (KV-B2512U only)


I²C bus
Volume headphones
Treblu
Volume main control
Reference Voltage
Clipping detector
bass width
Switch
Switch
Volume Pre-control
Quasi stereo
bass

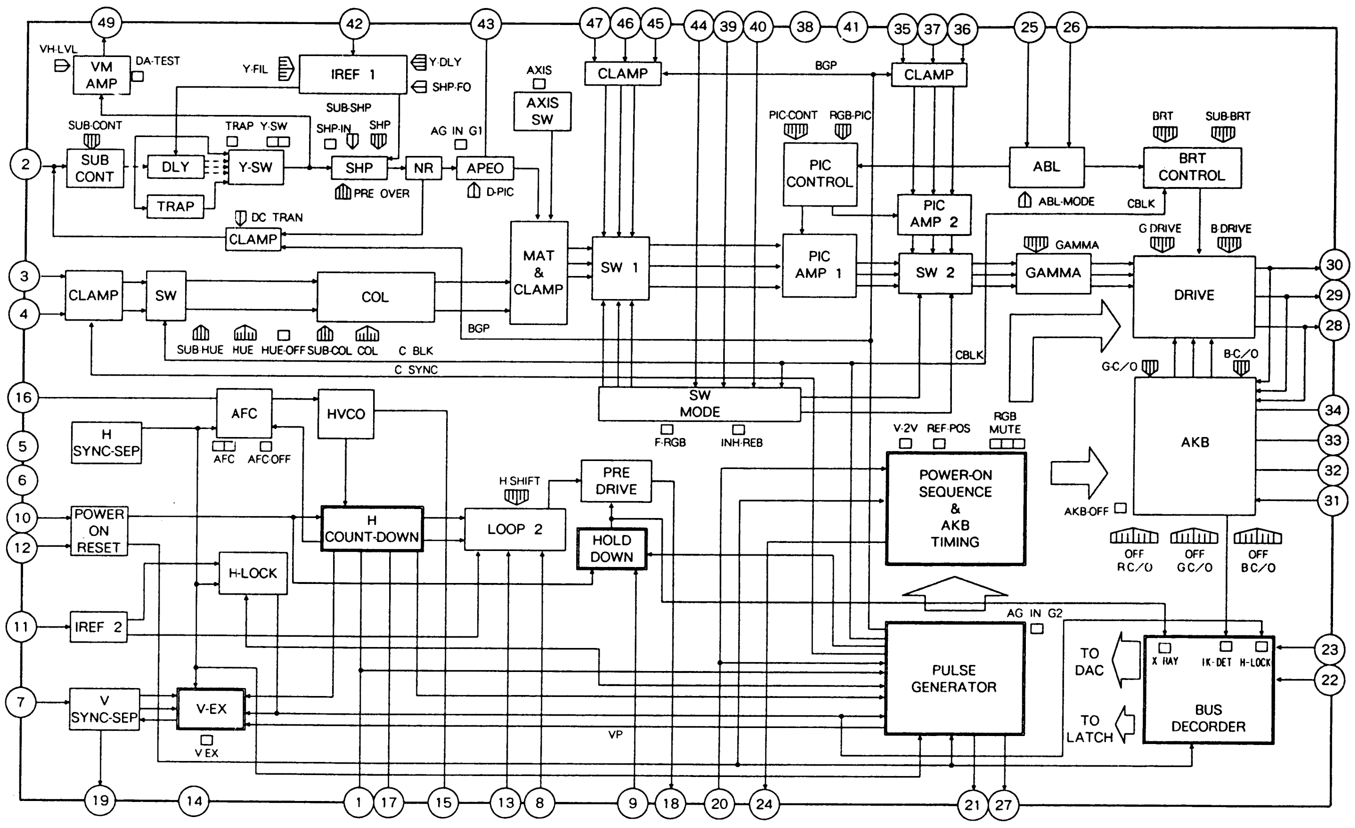
### • A BOARD IC201 TDA6612


PLL
FILTER
I²CBUS
VOLUME HEADPHONES
TREBLE
VOLUME MAIN CONTROL
MULTI PLEXER
INTEGRATOR
REFERENCE VOLTAGE
CLIPPING DETECTOR
BASE WIDTH
MATRIX
CROSS ADJ
54KHz FILTER
SWITCH
VOLUME PER CONTROL
QUASI STEREO
BASS

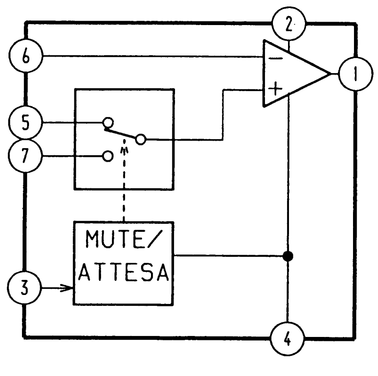
### • A BOARD IC301 TDA9145


SWITCH
I2CBUS
TIMING
IDENT
BANDPASS
ACC
CLOCHE
FOCTRL
SECAM DEMOD
DELAY
PEAKING
CHROMABP
PLL
HUE
PAL/NTSC DEMOD
SWITCHI
TRRPS
SWITCH
DOUBLER
BIAS

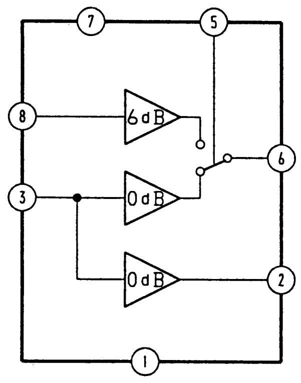
### • A BOARD IC304 CXA1587S


VH-LVL
VM AMP
DA-TEST
Y-FIL
IREF 1
Y-DLY
SHP-FO
AXIS
AXIS SW
CLAMP
BGP
CLAMP
SUB-CONT
SUB CONT
TRAP
Y-SW
SUB-SHP
SHP-IN
SHP
DLY
Y-SW
SHP
NR
AG IN G1
APEO
PRE OVER
D-PIC
TRAP
DC TRAN
CLAMP
PIC-CONT
RGB-PIC
PIC CONTROL
ABL
ABL-MODE
BRT
SUB-BRT
BRT CONTROL
CBLK
PIC AMP 2
MAT & CLAMP
SW 1
PIC AMP 1
SW 2
GAMMA
GAMMA
G DRIVE
B DRIVE
DRIVE
CLAMP
SW
COL
SUB-HUE
HUE
HUE-OFF
SUB-COL
COL
C BLK
C SYNC
CBLK
G-C/O
B-C/O
AFC
HVCO
SW MODE
F-RGB
INH-REB
H SYNC-SEP
AFC
AFC-OFF
V-2V
REF-POS
RGB MUTE
AKB
POWER-ON SEQUENCE & AKB TIMING
H SHIFT
PRE DRIVE
POWER ON RESET
H COUNT-DOWN
LOOP 2
HOLD DOWN
AKB-OFF
OFF RC/O
OFF GC/O
OFF BC/O
H-LOCK
AG IN G2
IREF 2
PULSE GENERATOR
TO DAC
X RAY
IK-DET
H-LOCK
BUS DECORDER
TO LATCH
V SYNC-SEP
V-EX
V EX
VP

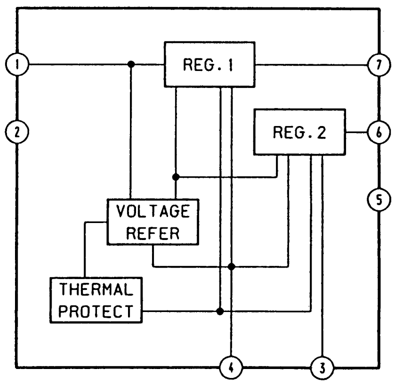
### • A BOARD IC251 TDA2052


MUTE/ ATTESA

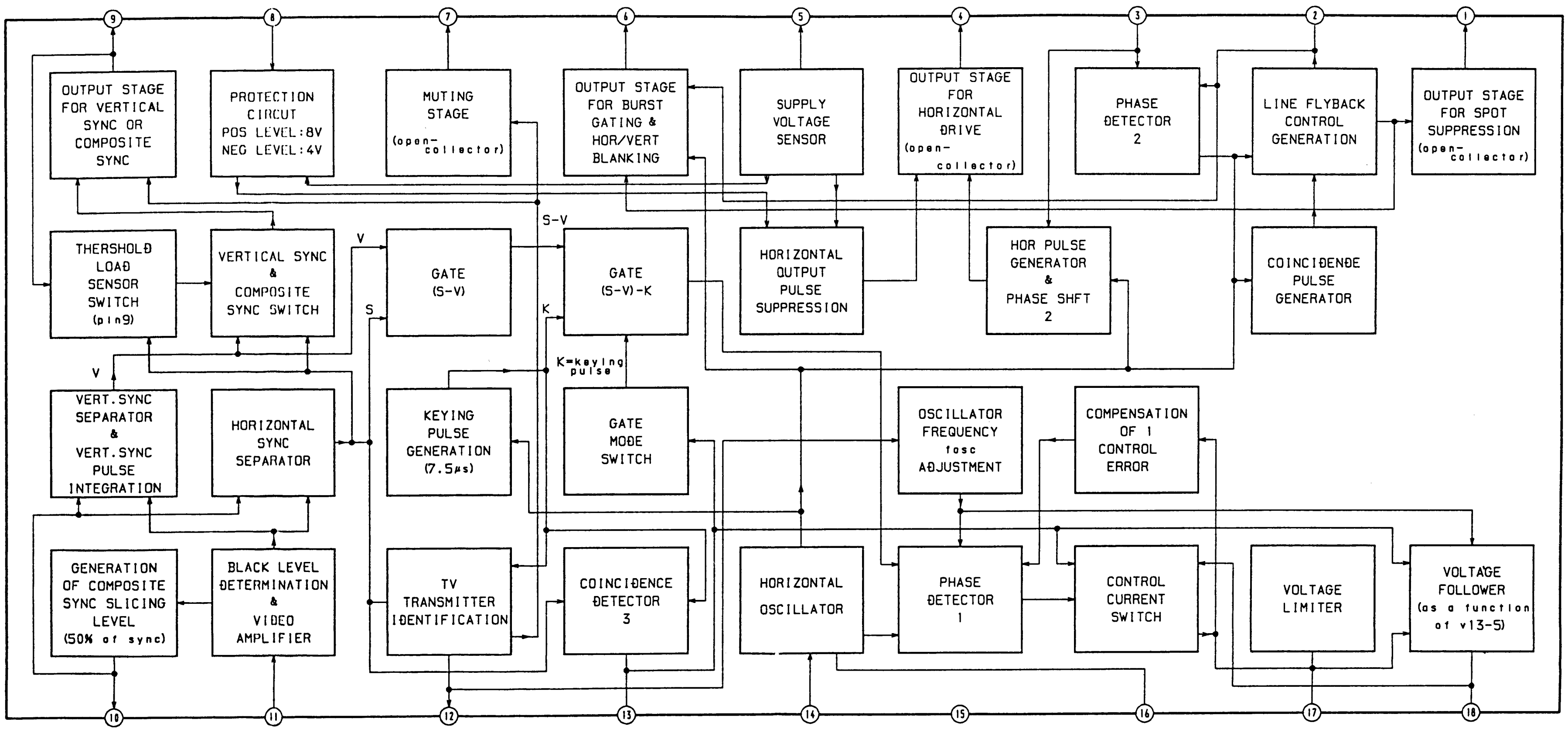
### • A BOARD IC402 TEA2114



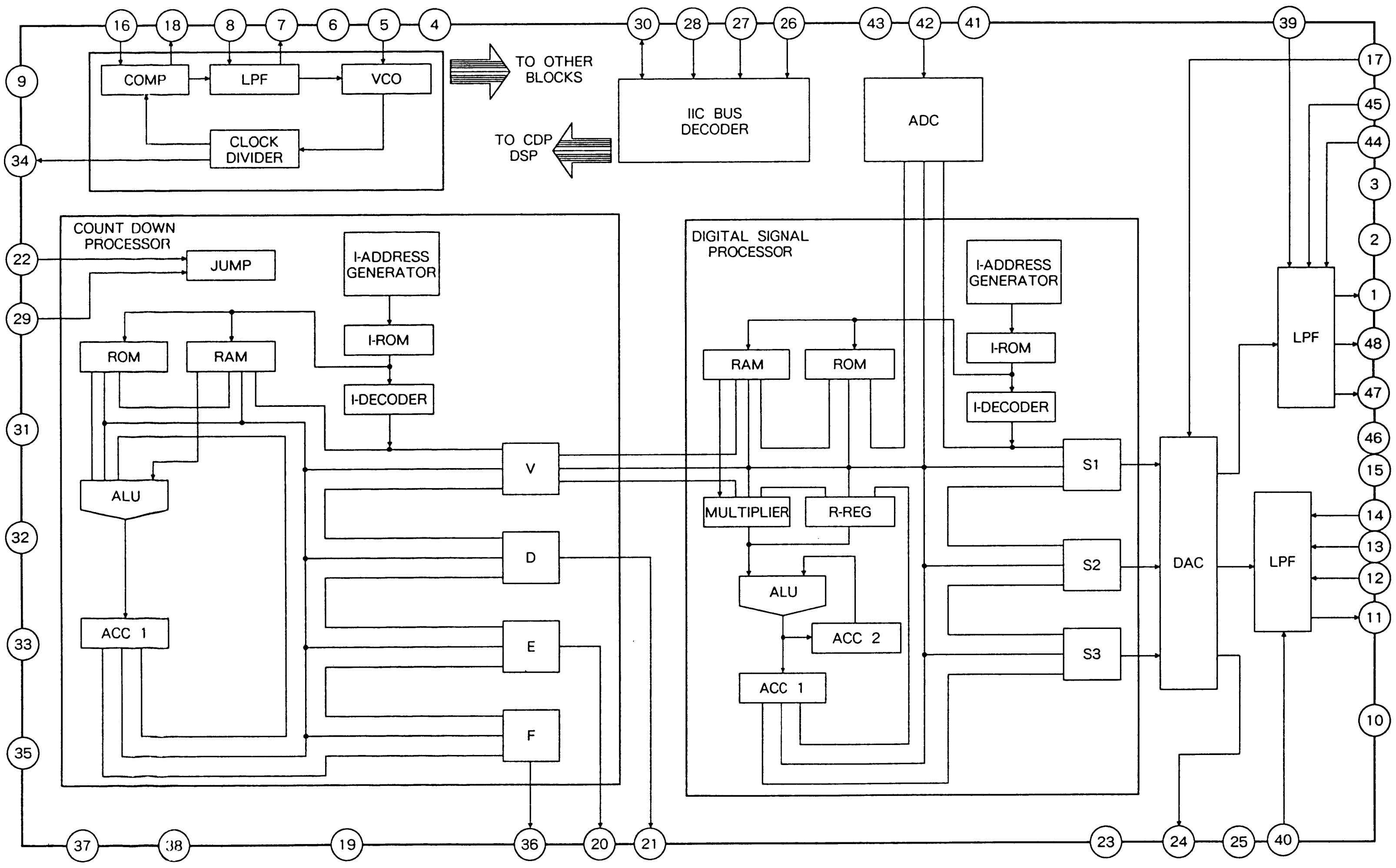
### • A BOARD IC681 TDA8134

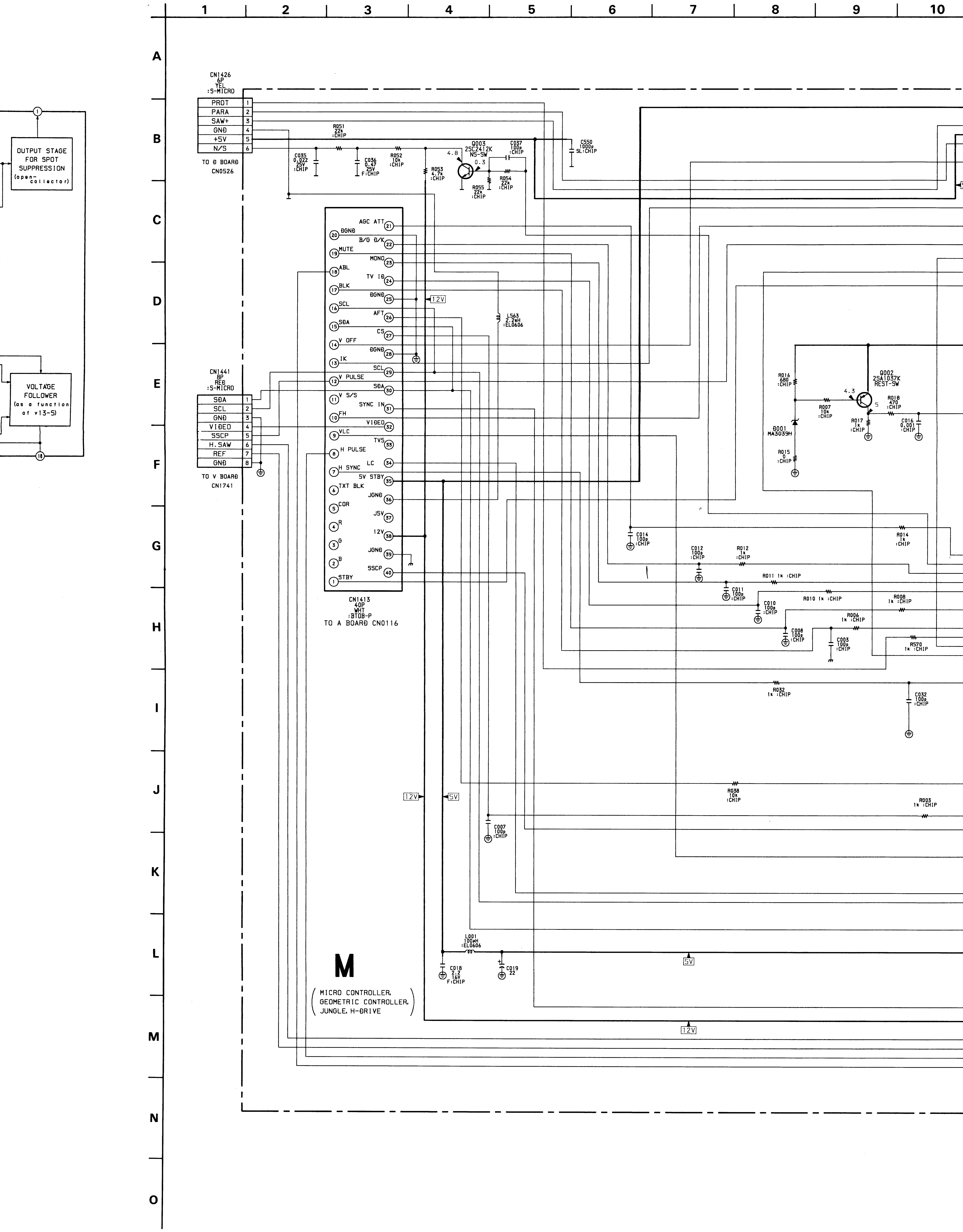

REG. 1
REG. 2
VOLTAGE REFER
THERMAL PROTECT

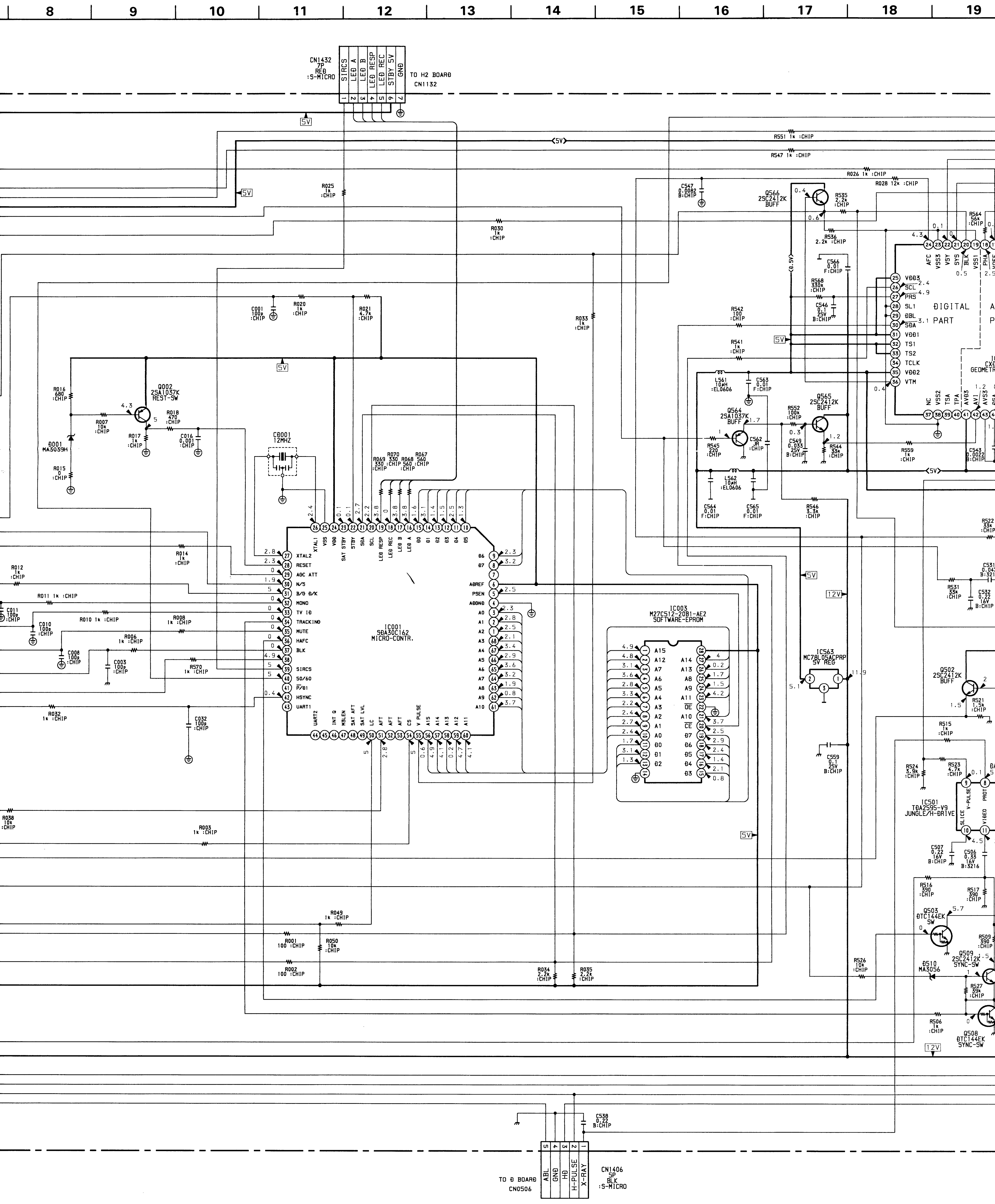
## • M BOARD IC501 TDA2595-V9


OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE SYNC
PROTECTION CIRCUIT POS LEVEL:8V NEG LEVEL:4V
MUTING STAGE (open-collector)
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE (open-collector)
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION (open-collector)
THERSHOLD LOAD SENSOR SWITCH (pin9)
VERTICAL SYNC & COMPOSITE SYNC SWITCH
V
S
GATE (S-V)
S-V
K
GATE (S-V)-K
HORIZONTAL OUTPUT PULSE SUPPRESSION
HOR PULSE GENERATOR & PHASE SHFT 2
COINCIDENDE PULSE GENERATOR
V
K=keying pulse
VERT.SYNC SEPARATOR & VERT.SYNC PULSE INTEGRATION
HORIZONTAL SYNC SEPARATOR
KEYING PULSE GENERATION (7.5μs)
GATE MODE SWITCH
OSCILLATOR FREQUENCY fosc ADJUSTMENT
COMPENSATION OF 1 CONTROL ERROR
GENERATION OF COMPOSITE SYNC SLICING LEVEL (50% of sync)
BLACK LEVEL DETERMINATION & VIDEO AMPLIFIER
TV TRANSMITTER IDENTIFICATION
COINCIDENCE DETECTOR 3
HORIZONTAL OSCILLATOR
PHASE DETECTOR 1
CONTROL CURRENT SWITCH
VOLTAGE LIMITER
VOLTAGE FOLLOWER (as a function of v13-5)
9
8
7
6
5
4
3
2
1
10
11
12
13
14
15
16
17
18

## • M BOARD IC561 CXD2018Q


16
18
8
7
6
5
4
COMP
LPF
VCO
CLOCK DIVIDER
TO OTHER BLOCKS
TO CDP DSP
30
28
27
26
IIC BUS DECODER
43
42
41
ADC
39
9
34
17
45
44
3
2
1
48
47
46
15
14
13
12
11
10
COUNT DOWN PROCESSOR
JUMP
I-ADDRESS GENERATOR
I-ROM
I-DECODER
ROM
RAM
ALU
ACC 1
V
D
E
F
22
29
31
32
33
35
DIGITAL SIGNAL PROCESSOR
I-ADDRESS GENERATOR
I-ROM
I-DECODER
RAM
ROM
MULTIPLIER
R-REG
ALU
ACC 2
ACC 1
S1
S2
S3
DAC
LPF
LPF
37
38
19
36
20
21
23
24
25
40


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
OUTPUT STAGE FOR SPOT SUPPRESSION (open-collector)
VOLTAGE FOLLOWER (as a function of v13-5)
CN1426 6P YEL :S-MICRO
PROT
PARA
SAW+
GND
+5V
N/S
TO D BOARD CN0526
R051 22k :CHIP
C035 0.022 25V :CHIP
C036 0.47 25V F:CHIP
R052 10k :CHIP
R053 4.7k :CHIP
Q003 2SC2412K NS-SW
4.8
0.3
C037 100p :CHIP
R054 22k :CHIP
R055 22k :CHIP
C550 1000p SL:CHIP
AGC ATT
BGND
B/G D/K
MUTE
MONO
ABL
TV ID
BLK
DGND
SCL
AFT
SDA
CS
V OFF
IK
V PULSE
V S/S
SYNC IN
FH
VIDEO
VLC
TV5
H PULSE
LC
H SYNC
5V STBY
TXT BLK
JGND
COR
J5V
R
12V
G
B
SSCP
STBY
CN1413 40P WHT :BTOB-P TO A BOARD CN0116
L563 2.2mH :EL0606
CN1441 8P RED :S-MICRO
SDA
SCL
GND
VIDEO
SSCP
H.SAW
REF
GND
TO V BOARD CN1741
R016 680 :CHIP
Q002 2SA1037K REST-SW
4.3
5
R018 470 :CHIP
R007 10k :CHIP
R017 1k :CHIP
C016 0.001 :CHIP
D001 MA3039H
R015 0 :CHIP
C014 100p :CHIP
R014 1k :CHIP
C012 100p :CHIP
R012 1k :CHIP
R011 1k :CHIP
C011 100p :CHIP
C010 100p :CHIP
R010 1k :CHIP
R008 1k :CHIP
C008 100p :CHIP
R006 1k :CHIP
C003 100p :CHIP
R570 1k :CHIP
R032 1k :CHIP
C032 100p :CHIP
R038 10k :CHIP
R003 1k :CHIP
12V
5V
C007 100p :CHIP
L001 100μH :EL0606
C018 2.2 16V F:CHIP
C019 22
5V
12V
M
MICRO CONTROLLER, GEOMETRIC CONTROLLER, JUNGLE, H-DRIVE


8
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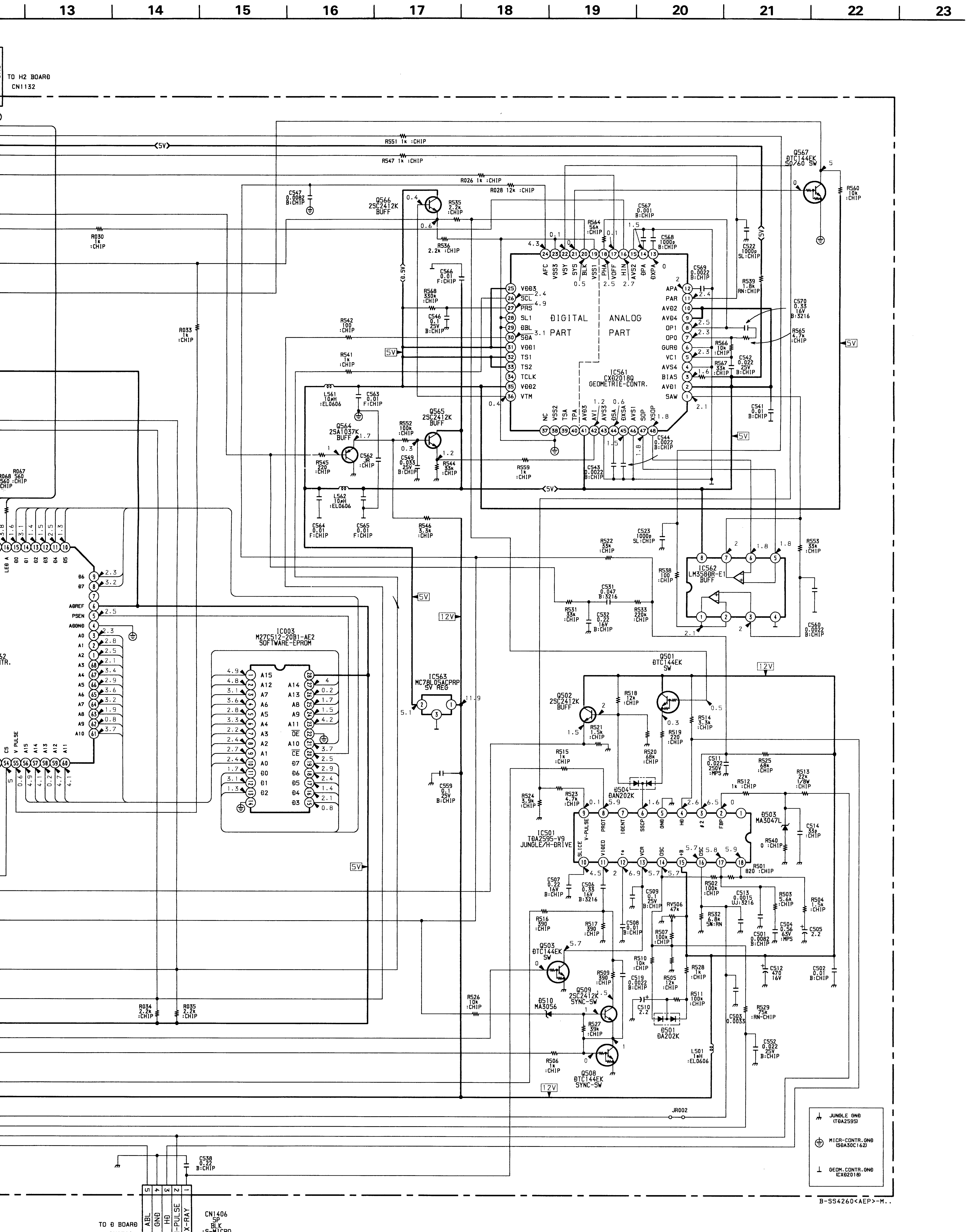
18
19
CN1432 7P RED :S-MICRO
SIRCS
LED A
LED B
LED RESP
LED REC
STBY 5V
GND
TO H2 BOARD CN1132
5V
R551 1k :CHIP
R547 1k :CHIP
R026 1k :CHIP
R028 12k :CHIP
R025 1k :CHIP
C547 0.0082 B:CHIP
Q566 2SC2412K BUFF
R535 2.2k :CHIP
R536 2.2k :CHIP
R564 56k :CHIP
R030 1k :CHIP
C566 0.01 F:CHIP
R568 330k :CHIP
C546 0.1 25V B:CHIP
DIGITAL PART
VDD3
SCL
PRS
SL1
DBL
SDA
VDD1
TS1
TS2
TCLK
VDD2
VTM
AFC
VSS3
VSY
SYS
BLK
VSS1
PHA
NC
VSS2
TSA
TPA
AV03
AV1
AVS3
GEOMETR
C001 100p :CHIP
R020 1k :CHIP
R021 4.7k :CHIP
R033 1k :CHIP
R542 100 :CHIP
R541 1k :CHIP
L561 10μH :EL0606
C563 0.01 F:CHIP
Q564 2SA1037K BUFF
Q565 2SC2412K BUFF
R552 100k :CHIP
C562 JR :CHIP
C549 0.033 25V B:CHIP
R545 220 :CHIP
R544 33k :CHIP
R559 1k :CHIP
C543 0.0022 B:CHIP
L562 10μH :EL0606
C564 0.01 F:CHIP
C565 0.01 F:CHIP
R546 3.3k :CHIP
R522 33k :CHIP
R016 680 :CHIP
Q002 2SA1037K REST-SW
R018 470 :CHIP
R007 10k :CHIP
R017 1k :CHIP
C016 0.001 :CHIP
D001 MA3039H
R015 0 :CHIP
CD001 12MHZ
R070 330
R068 560
R067 560
R069 330
R014 1k :CHIP
R012 1k :CHIP
R011 1k :CHIP
C011 100p :CHIP
C010 100p :CHIP
R010 1k :CHIP
R008 1k :CHIP
R006 1k :CHIP
C008 100p :CHIP
C003 100p :CHIP
R570 1k :CHIP
R032 1k :CHIP
C032 100p :CHIP
XTAL1
VSS
VDD
SAT STBY
STBY
SDA
SCL
LED RESP
LED REC
LED B
LED A
D0
D1
D2
D3
D4
D5
D6
D7
XTAL2
RESET
ADC ATT
N/S
B/D Q/K
MONO
TV ID
TRACKING
MUTE
HAFC
BLK
SIRCS
50/60
P/D1
HSYNC
UART1
AGREF
PSEN
AGGND
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
IC001 SDA30C162 MICRO-CONTR.
UART2
INT Q
MBLEN
SAT AFT
SAT LVL
LC
AFT
CS
V PULSE
A15
A14
A13
A12
A11
IC003 M27C512-20B1-AE2 SOFTWARE-EPROM
OE
CE
IC563 MC78L05ACPRP 5V REG
12V
C531 0.047
R531 33k :CHIP
C532 0.22 16V B:CHIP
Q502 2SC2412K BUFF
R521 1.5k :CHIP
R515 1k :CHIP
C559 0.1 25V B:CHIP
R524 3.9k :CHIP
R523 4.7k :CHIP
IC501 TDA2595-V9 JUNGLE/H-DRIVE
V-PULSE
PROT
SLICE
VIDEO
C507 0.22 16V B:CHIP
C506 0.33 16V B:3216
R516 390 :CHIP
R517 390 :CHIP
Q503 DTC144EK SW
R509 390 :CHIP
Q509 2SC2412K SYNC-SW
D510 MA3056
R526 10k :CHIP
R527 39k :CHIP
R506 1k :CHIP
Q508 DTC144EK SYNC-SW
R038 10k :CHIP
R003 1k :CHIP
R049 1k :CHIP
R001 100 :CHIP
R050 10k :CHIP
R002 100 :CHIP
R034 2.2k :CHIP
R035 2.2k :CHIP
C538 0.22 B:CHIP
TO D BOARD CN0506
ABL
GND
HD
H-PULSE
X-RAY
CN1406 5P BLK :S-MICRO


13
14
15
16
17
18
19
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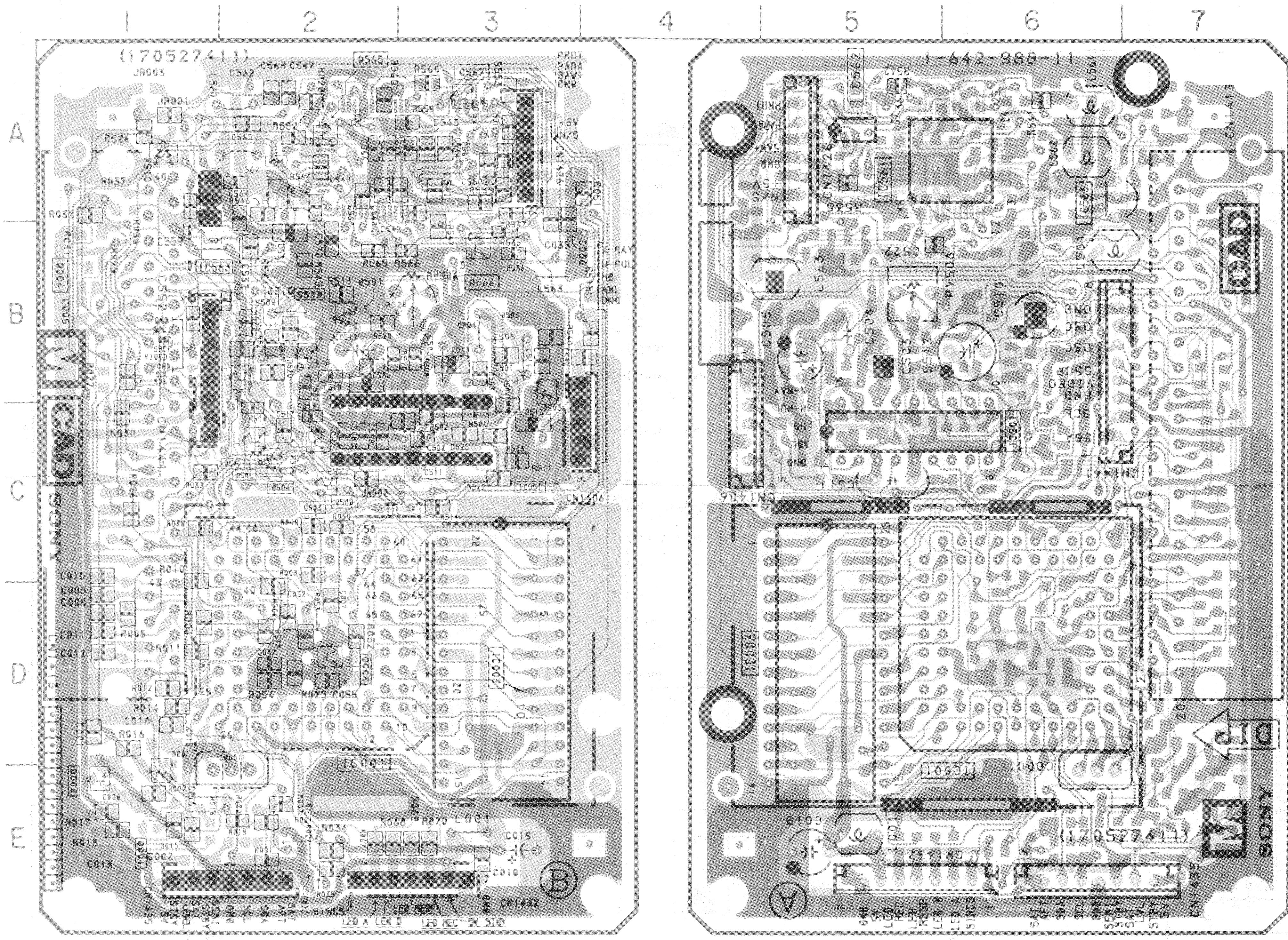
21
22
23
TO H2 BOARD
CN1132
R551 1k :CHIP
R547 1k :CHIP
R026 1k :CHIP
R028 12k :CHIP
C547 0.0082 B:CHIP
Q566 2SC2412K BUFF
R535 2.2k :CHIP
R536 2.2k :CHIP
R030 1k :CHIP
C566 0.01 F:CHIP
R568 330k :CHIP
C546 0.1 25V B:CHIP
R542 100 :CHIP
R541 1k :CHIP
R033 1k :CHIP
Q567 DTC144EK 50/60 SW
R560 10k :CHIP
C567 0.001 B:CHIP
R564 56k :CHIP
C568 1000p B:CHIP
C522 1000p SL:CHIP
C569 0.0022 B:CHIP
R539 1.8k RN:CHIP
C570 0.33 16V B:3216
R565 4.7k :CHIP
R566 10k :CHIP
R567 33k :CHIP
C542 0.022 25V B:CHIP
C541 0.01 B:CHIP
DIGITAL PART
ANALOG PART
IC561 CX02018Q GEOMETRIE-CONTR.
AFC VSS3 VSY SYS BLK VSS1 PHA VOFF HIN AVS2 DPA DXPA
VDD3 SCL PRS SL1 DBL SDA VDD1 TS1 TS2 TCLK VDD2 VTM
APA PAR AVD2 AVD4 OP1 OPO GURD VC1 AVS4 BIAS AVD1 SAW
NC VSS2 TSA TPA AVD3 AV1 AVS3 DSA DXSA AVS1 SOP XSOP
L561 10μH :EL0606
C563 0.01 F:CHIP
Q564 2SA1037K BUFF
Q565 2SC2412K BUFF
R552 100k :CHIP
C562 JR :CHIP
C549 0.033 25V B:CHIP
R544 33k :CHIP
R545 220 :CHIP
R559 1k :CHIP
C543 0.0022 B:CHIP
C544 0.0022 B:CHIP
L562 10μH :EL0606
C564 0.01 F:CHIP
C565 0.01 F:CHIP
R546 3.3k :CHIP
C523 1000p SL:CHIP
R522 33k :CHIP
R538 100 :CHIP
IC562 LM358DR-E1 BUFF
R553 33k :CHIP
C531 0.047 B:3216
R531 33k :CHIP
C532 0.22 16V B:CHIP
R533 220k :CHIP
C560 0.0022 B:CHIP
R068 560 :CHIP
R067 560 :CHIP
LED A
D0 D1 D2 D3 D4 D5 D6 D7
ADREF PSEN ADGND A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10
V PULSE A15 A14 A13 A12 A11
IC003 M27C512-20B1-AE2 SOFTWARE-EPROM
A15 A12 A7 A6 A5 A4 A3 A2 A1 A0 D0 D1 D2
A14 A13 A8 A9 A11 OE A10 CE D7 D6 D5 D4 D3
IC563 MC78L05ACPRP 5V REG
C559 0.1 25V B:CHIP
Q501 DTC144EK SW
Q502 2SC2412K BUFF
R518 12k :CHIP
R521 1.5k :CHIP
R519 220 :CHIP
R514 3.3k :CHIP
R520 68k :CHIP
R515 1k :CHIP
C511 0.022 250V :MPS
R525 68k :CHIP
R512 1k :CHIP
R513 22k 1/8W :CHIP
R524 3.9k :CHIP
R523 4.7k :CHIP
D504 DAN202K
D503 MA3047L
C514 33p :CHIP
R540 0 :CHIP
IC501 TDA2595-V9 JUNGLE/H-DRIVE
V-PULSE PROT IDENT SSCP GND HD FBP SLICE VIDEO VCR OSC
R501 820 :CHIP
C507 0.22 16V B:CHIP
C506 0.33 16V B:3216
C509 0.1 25V B:CHIP
RV506 47k
R502 100k :CHIP
C513 0.0015 UJ:3216
R503 5.6k :CHIP
R504 1.5k :CHIP
R516 390 :CHIP
R517 390 :CHIP
C508 0.01 B:CHIP
R507 100k :CHIP
R532 6.8k SN:RN
C501 0.0082 B:CHIP
C504 0.56 63V :MPS
C505 2.2
Q503 DTC144EK SW
R510 10k :CHIP
R528 1k :CHIP
C512 470 16V
C502 0.01 B:CHIP
R509 390 :CHIP
C519 0.0022 B:CHIP
R505 12k :CHIP
Q509 2SC2412K SYNC-SW
D510 MA3056
C510 2.2
R511 100k :CHIP
R529 75k :RN-CHIP
C503 0.0033
R526 10k :CHIP
R527 39k :CHIP
D501 DA202K
C552 0.022 25V B:CHIP
L501 1mH :EL0606
R506 1k :CHIP
Q508 DTC144EK SYNC-SW
R034 2.2k :CHIP
R035 2.2k :CHIP
JR002
JUNGLE GND (TDA2595)
MICR-CONTR. GND (SDA30C162)
GEOM. CONTR. GND (CX02018)
C538 0.22 B:CHIP
ABL GND HD H-PULSE X-RAY
TO D BOARD CN0506
CN1406 5P BLK :S-MICRO
5V
12V
B-SS4260<AEP>-M..

**M** [MICRO CONTROLLER, GEOMETRIE CONTROLLER JUNGLE, H-DRIVE] **D** [H/V OUT, PIN OUT, POWER SUPPLY]

– M BOARD –


1
2
3
4
5
6
7
A
B
C
D
E
(170527411)
1-642-988-11
M
CAD
SONY
IC001
IC003
CN1432
CN1435
CN1413
CN1426
CN1406
CN1441
RV506
D
A
B

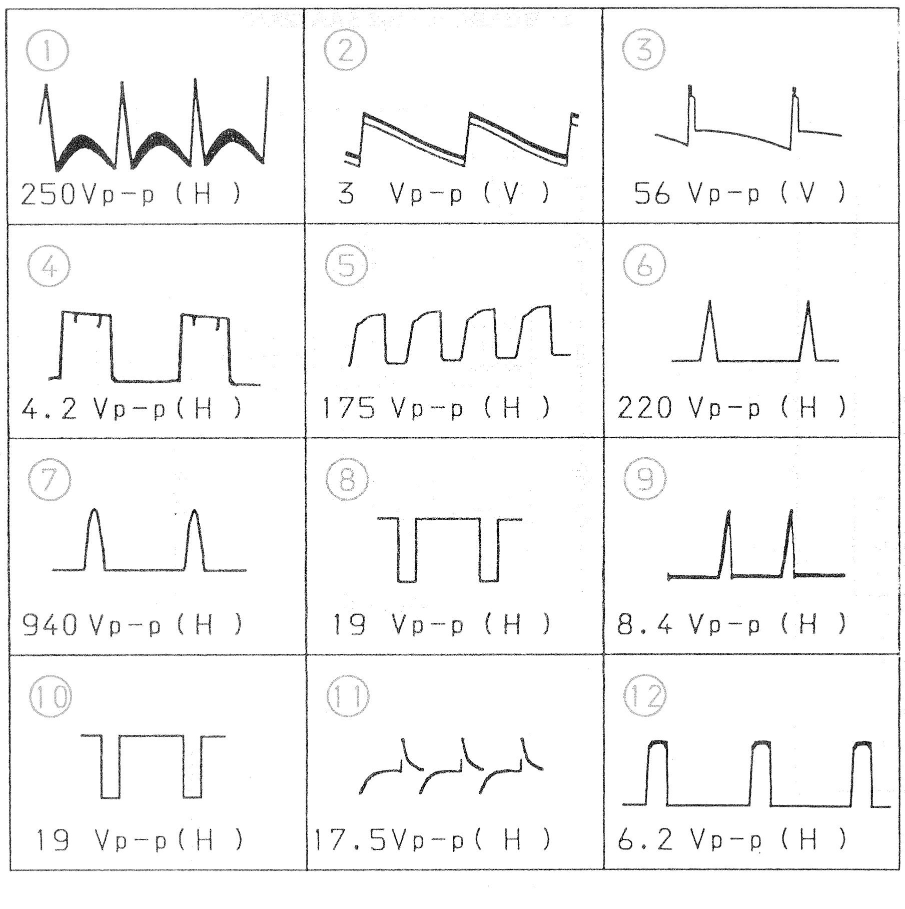
Note :

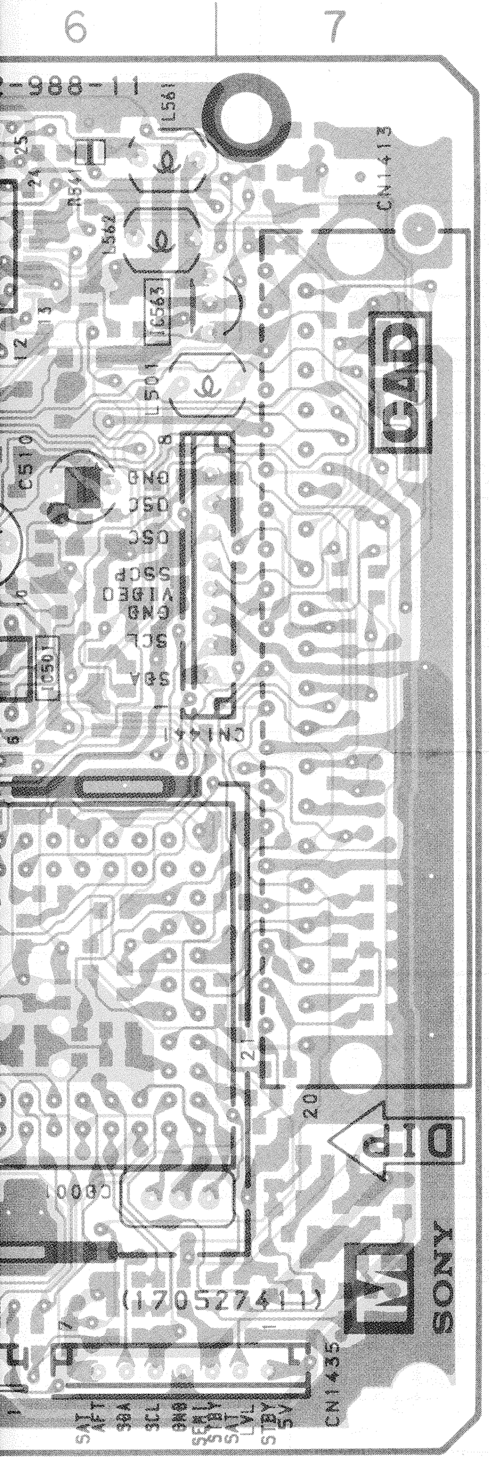
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

| IC | | DIODE | |
|---|---|---|---|
| IC001 | D – 2 | D001 | E – 1 |
| IC003 | D – 3 | D501 | B – 1 |
| IC501 | C – 3 | D503 | B – 3 |
| IC561 | A – 6 | D504 | C – 2 |
| IC562 | A – 5 | D510 | A – 1 |
| IC563 | A – 1 | | |

| TRANSISTOR | | VARIABLE RESISTOR | |
|---|---|---|---|
| Q002 | E – 2 | RV506 | B – 3 |
| Q003 | D – 2 | | |
| Q501 | C – 2 | | |
| Q502 | B – 2 | | |
| Q503 | C – 2 | | |
| Q508 | C – 2 | | |
| Q509 | B – 2 | | |
| Q564 | A – 2 | | |
| Q565 | A – 2 | | |
| Q566 | B – 3 | | |
| Q567 | A – 3 | | |

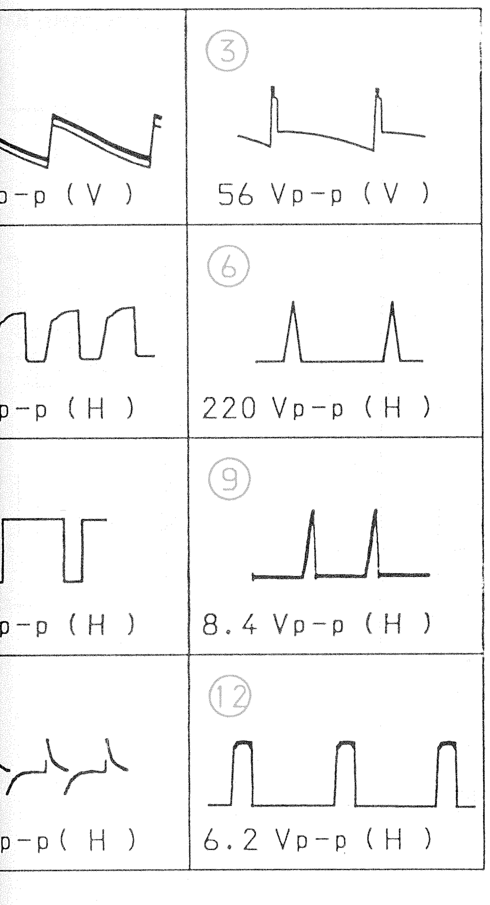
- **WAVEFORMS D BOARD**

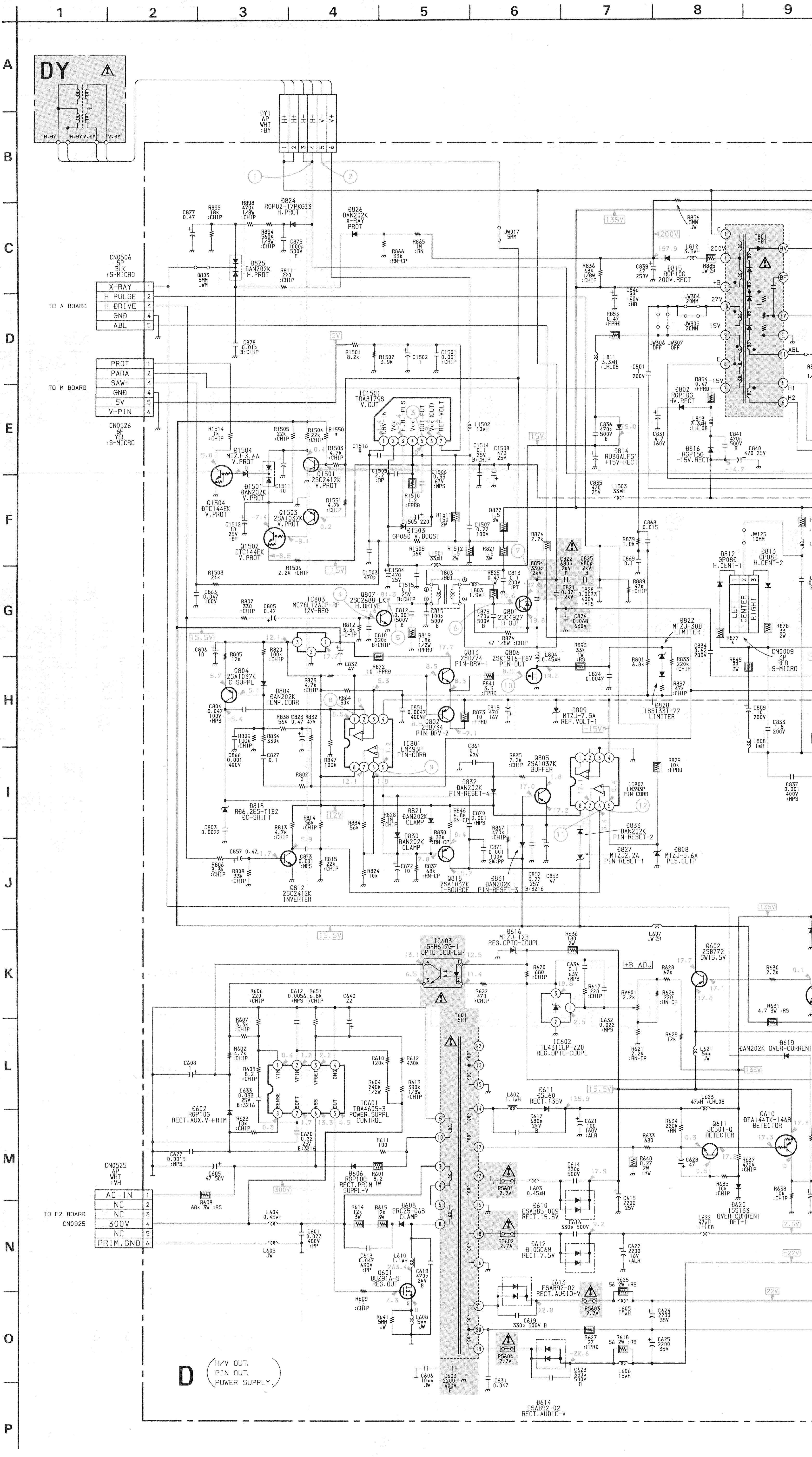

①
250Vp-p (H)
②
3 Vp-p (V)
③
56 Vp-p (V)
④
4.2 Vp-p (H)
⑤
175 Vp-p (H)
⑥
220 Vp-p (H)
⑦
940 Vp-p (H)
⑧
19 Vp-p (H)
⑨
8.4 Vp-p (H)
⑩
19 Vp-p (H)
⑪
17.5Vp-p (H)
⑫
6.2 Vp-p (H)


6
7
-988-11
CN1413
CAD
M
SONY
(1705274
CN1435
CN0003
DIO
GND
VIDEO
SCL
SDA

: Pattern from the side which enables seeing.

: Pattern of the rear side.




1
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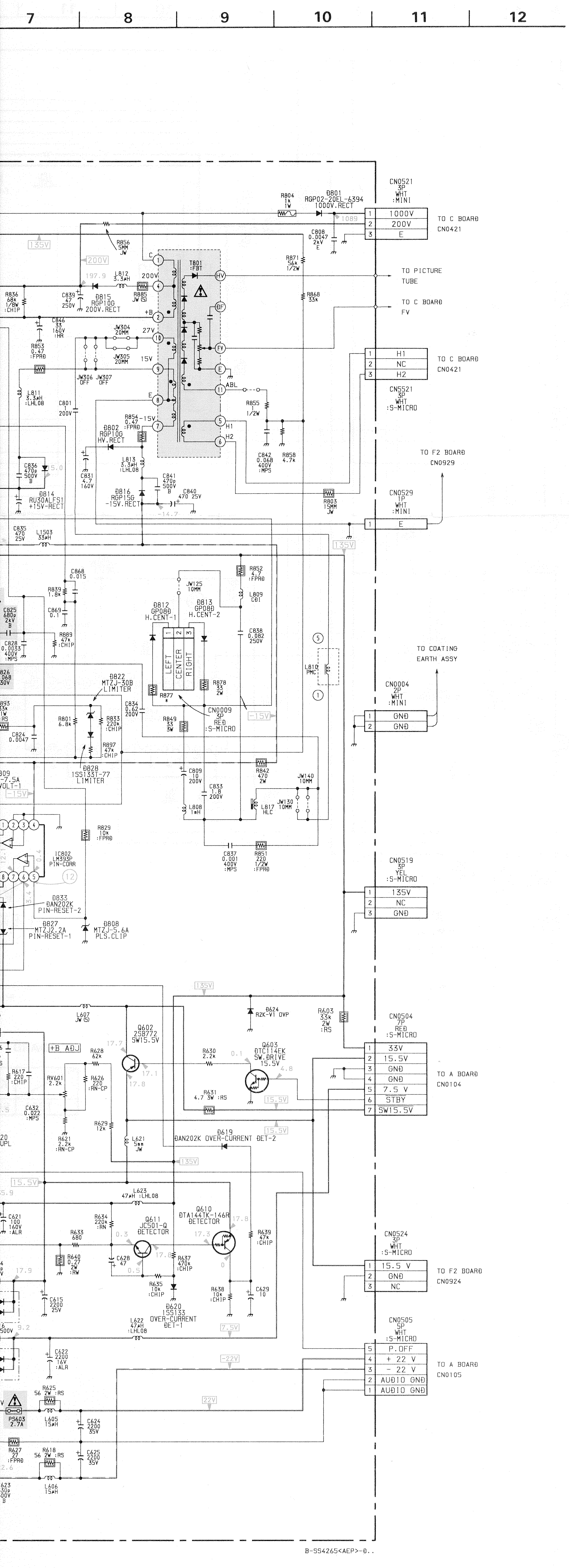
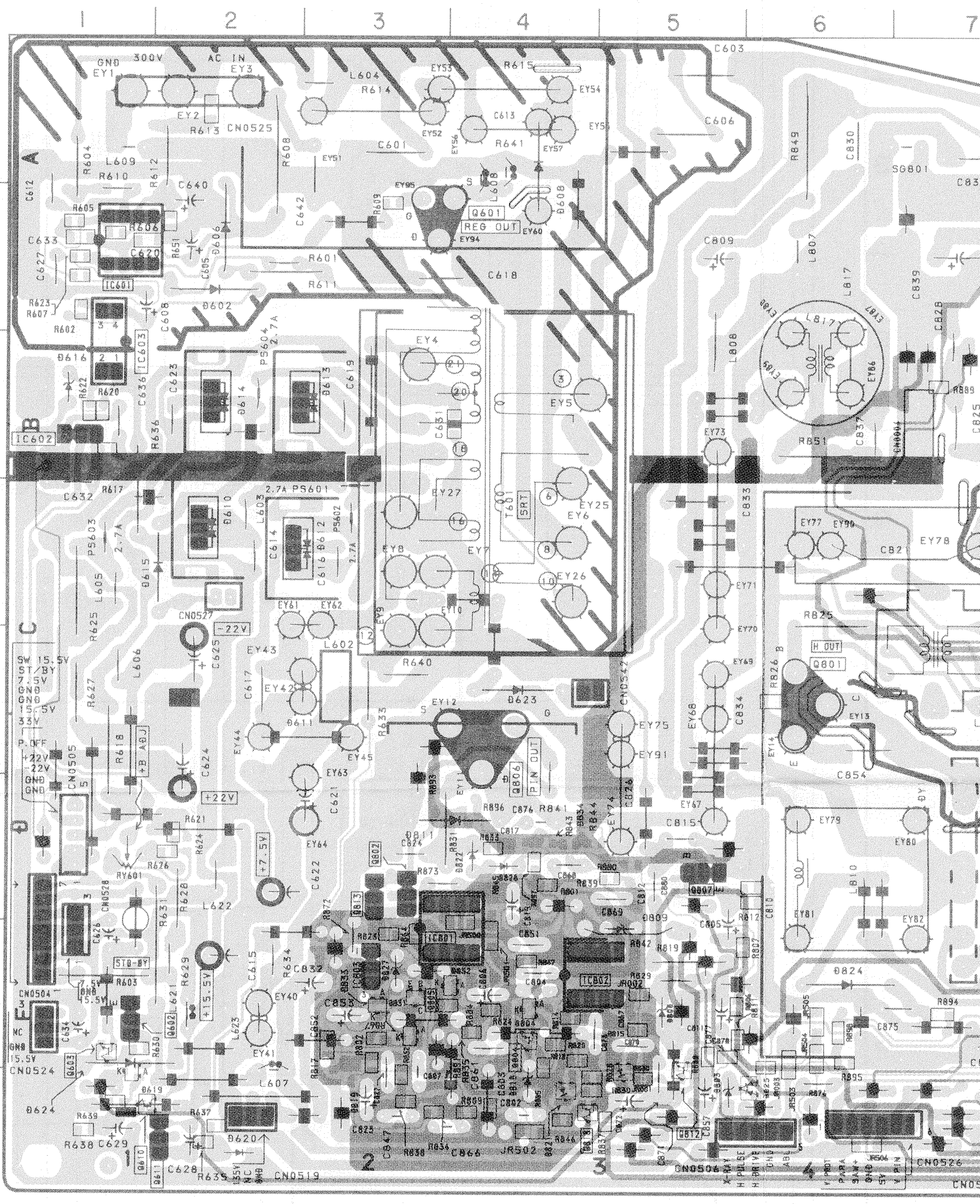
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
DY
H.DY
V.DY
DY1 6P WHT :DY
H+
H-
V-
V+
CN0506 5P BLK :S-MICRO
X-RAY
H PULSE
H DRIVE
GND
ABL
TO A BOARD
PROT
PARA
SAW+
GND
5V
V-PIN
TO M BOARD
CN0526 6P YEL :S-MICRO
D824 RGP02-17PKG23 H.PROT
D826 DAN202K X-RAY PROT
D825 DAN202K H.PROT
IC1501 TDA8179S V.OUT
Q1504 DTC144EK V.PROT
Q1501 2SC2412K V.PROT
Q1503 2SA1037K V.PROT
Q1502 DTC144EK V.PROT
D1504 MTZJ-3.6A V.PROT
D1501 DAN202K V.PROT
D1503 GP08D V.BOOST
IC803 MC78LI2ACP-RP 12V-REG
Q807 2SC2688-LK H.DRIVE
Q801 2SC4927 H-OUT
T803 :HDT
Q813 2SD774 PIN-DRV-1
Q806 2SK1916-F87 PIN-OUT
Q804 2SA1037K C-SUPPL
D804 DAN202K TEMP.CORR
Q802 2SB734 PIN-DRV-2
IC801 LM393P PIN-CORR
D809 MTZJ-7.5A REF.VOLT-1
Q805 2SA1037K BUFFER
D832 DAN202K PIN-RESET-4
IC802 LM393P PIN-CORR
D818 RD6.2ES-T1B2 DC-SHIFT
D821 DAN202K CLAMP
D830 DAN202K CLAMP
Q812 2SC2412K INVERTER
Q818 2SA1037K I-SOURCE
D831 DAN202K PIN-RESET-3
D833 DAN202K PIN-RESET-2
D827 MTZJ2.2A PIN-RESET-1
D808 MTZJ-5.6A PLS.CLIP
D822 MTZJ-30B LIMITER
D828 1SS133T-77 LIMITER
T801 :FBT
D815 RGP10G 200V.RECT
D802 RGP10G HV.RECT
D816 RGP15G -15V.RECT
D814 RU3AM LFS1 +15V-RECT
D812 GP08D H.CENT-1
D813 GP08D H.CENT-2
LEFT
CENTER
RIGHT
CN0009 3P RED :S-MICRO
135V
200V
15V
5V
-15V
15.5V
12V
IC603 SFH617G-1 OPTO-COUPLER
D616 MTZJ-12B REG.OPTO-COUPL
+B ADJ
IC602 TL431CLP-Z20 REG.OPTO-COUPL
Q602 2SB772 SW15.5V
D619 DAN202K OVER-CURRENT
Q610 DTA144TK-146R DETECTOR
Q611 JC501-Q DETECTOR
D620 1SS133 OVER-CURRENT DET-1
T601 :SRT
IC601 TDA4605-3 POWER.SUPPL CONTROL
D602 RGP10G RECT.AUX.V-PRIM
D606 RGP10G RECT.PRIM SUPPL-V
D608 ERC25-06S CLAMP
Q601 BUZ91A-S REG.OUT
D611 D5L60 RECT.135V
D610 ESAB85-009 RECT.15.5V
D612 D10SC6M RECT.7.5V
D613 ESAB92-02 RECT.AUDIO+V
D614 ESAB92-02 RECT.AUDIO-V
PS601 2.7A
PS602 2.7A
PS603 2.7A
PS604 2.7A
CN0525 6P WHT :VH
AC IN
NC
300V
PRIM.GND
TO F2 BOARD CN0925
7.5V
-22V
22V
D
H/V OUT, PIN OUT, POWER SUPPLY

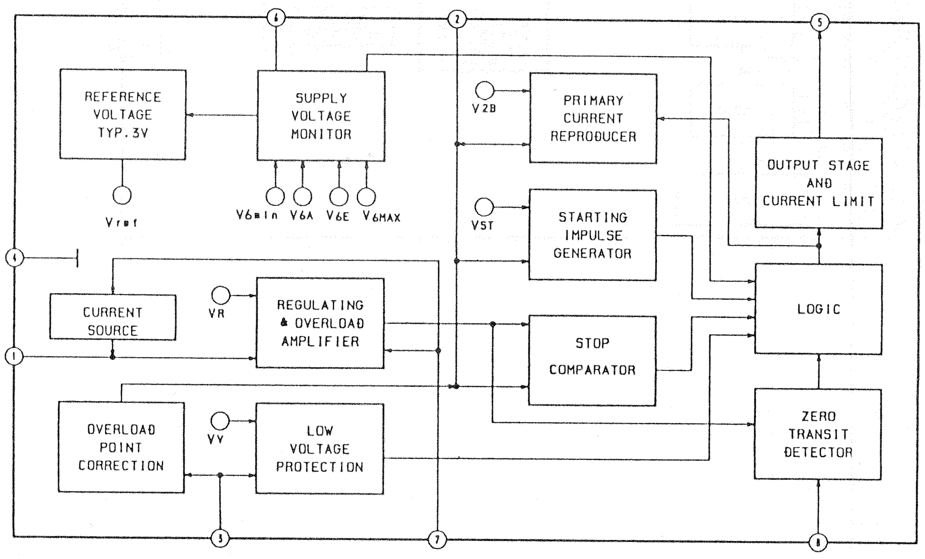

7
8
9
10
11
12
CN0521 3P WHT :MINI
1000V
200V
E
TO C BOARD CN0421
TO PICTURE TUBE
TO C BOARD FV
H1
NC
H2
TO C BOARD CN0421
CN5521 3P WHT :S-MICRO
TO F2 BOARD CN0929
CN0529 1P WHT :MINI
T801 FBT
D801 RGP02-20EL-6394 1000V.RECT
TO COATING EARTH ASSY
CN0004 2P WHT :MINI
GND
GND
CN0519 3P YEL :S-MICRO
135V
NC
GND
CN0504 7P RED :S-MICRO
33V
15.5V
GND
GND
7.5 V
STBY
SW15.5V
TO A BOARD CN0104
CN0524 3P WHT :S-MICRO
15.5 V
GND
NC
TO F2 BOARD CN0924
CN0505 5P WHT :S-MICRO
P.OFF
+ 22 V
- 22 V
AUDIO GND
AUDIO GND
TO A BOARD CN0105
IC802 LM393P PIN-CORR
Q602 2SB772 SW15.5V
Q603 DTC114EK SW.DRIVE 15.5V
Q611 JC501-Q DETECTOR
Q610 DTA144TK-146R DETECTOR
D619 DAN202K OVER-CURRENT DET-2
D620 1SS133 OVER-CURRENT DET-1
D624 RZK-V1 OVP
D812 GP08D H.CENT-1
D813 GP08D H.CENT-2
D822 MTZJ-30B LIMITER
D828 1SS133T-77 LIMITER
D833 DAN202K PIN-RESET-2
D827 MTZJ2.2A PIN-RESET-1
D808 MTZJ-5.6A PLS.CLIP
CN0009 3P RED :S-MICRO
LEFT CENTER RIGHT
B-SS4265<AEP>-D..

## – D BOARD –

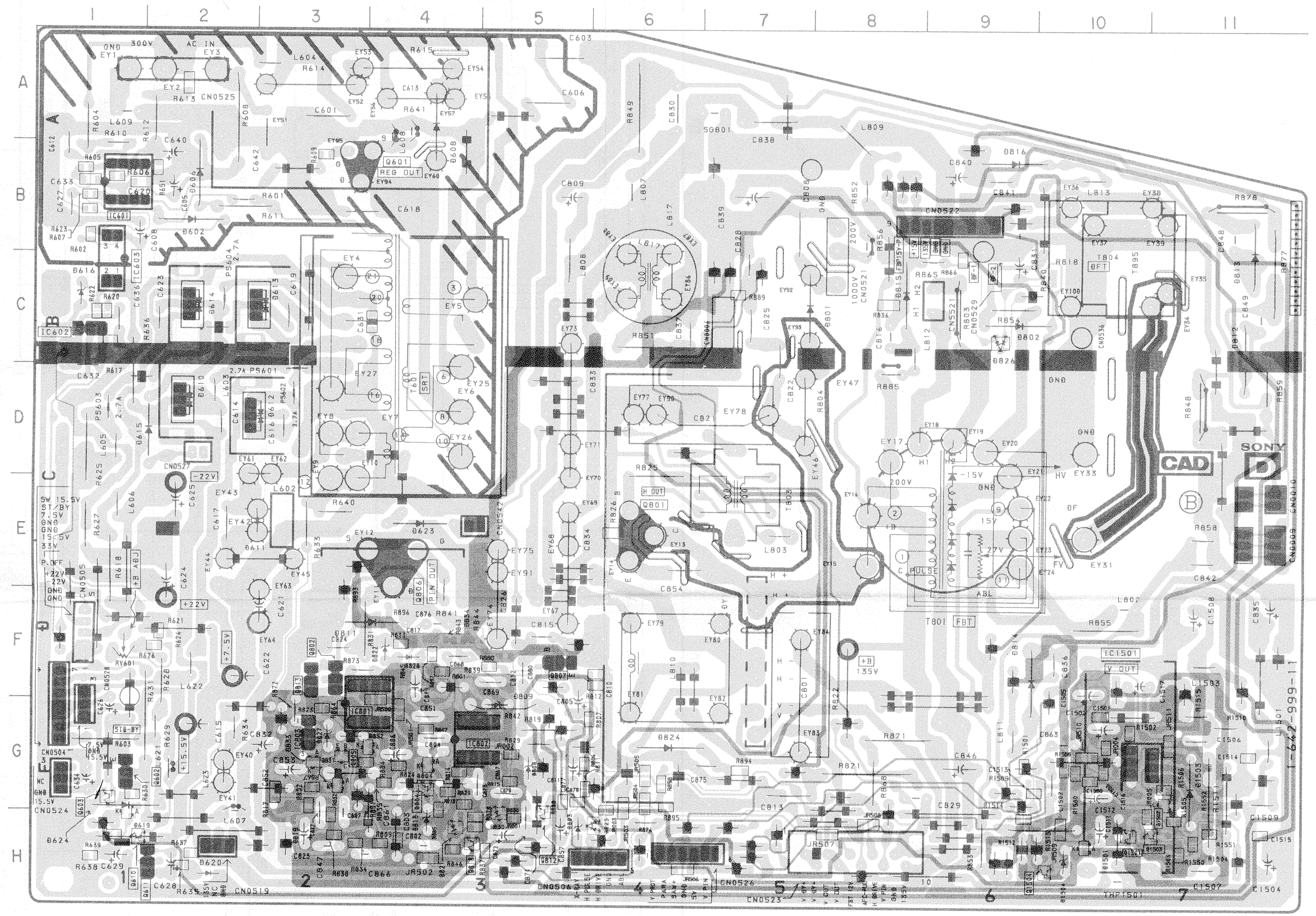

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H

Note :
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

## • D BOARD IC601 TDA4605-3


REFERENCE VOLTAGE TYP.3V
Vref
SUPPLY VOLTAGE MONITOR
V6min V6A V6E V6MAX
V2B
PRIMARY CURRENT REPRODUCER
VST
STARTING IMPULSE GENERATOR
OUTPUT STAGE AND CURRENT LIMIT
CURRENT SOURCE
VR
REGULATING & OVERLOAD AMPLIFIER
STOP COMPARATOR
LOGIC
OVERLOAD POINT CORRECTION
VY
LOW VOLTAGE PROTECTION
ZERO TRANSIT DETECTOR
1
2
3
4
5
6
7
8

- D BOARD -


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
SONY
CAD
D
1-642-999-11

Note :

- ▨ : Pattern from the side which enables seeing.
- ▩ : Pattern of the rear side.

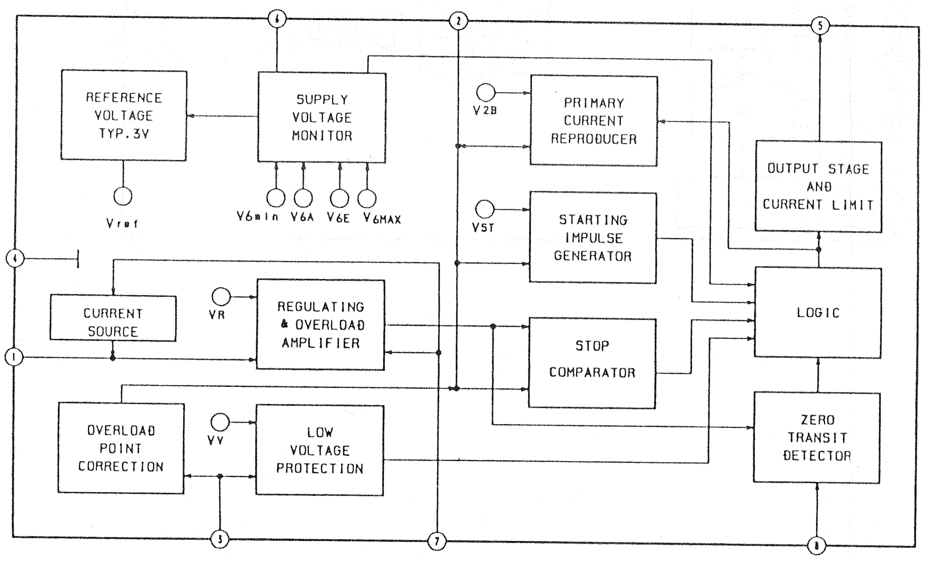
| IC | |
|---|---|
| IC601 | B－1 |
| IC602 | C－1 |
| IC603 | C－1 |
| IC801 | G－3 |
| IC802 | G－4 |
| IC803 | G－3 |
| IC1501 | G－10 |

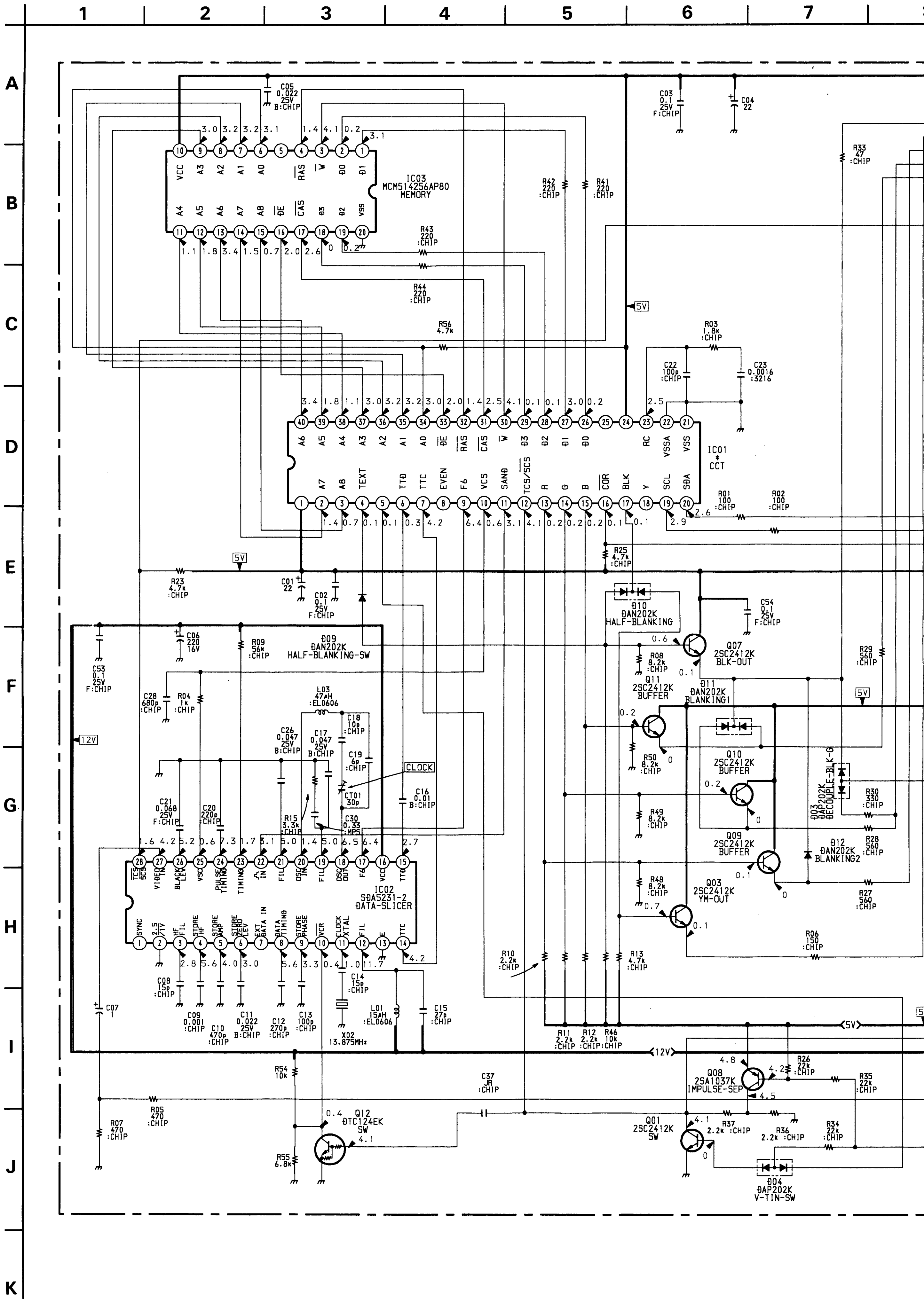
| TRANSISTOR | |
|---|---|
| Q601 | B－3 |
| Q602 | G－1 |
| Q603 | G－1 |
| Q610 | H－1 |
| Q611 | H－2 |
| Q801 | E－6 |
| Q802 | F－3 |
| Q804 | G－4 |
| Q805 | G－3 |
| Q806 | E－4 |
| Q807 | F－5 |
| Q812 | H－5 |
| Q813 | F－3 |
| Q818 | H－4 |
| Q1501 | H－10 |
| Q1502 | G－11 |
| Q1503 | H－11 |
| Q1504 | H－10 |

| DIODE | |
|---|---|
| D602 | B－2 |
| D606 | B－2 |
| D608 | A－4 |
| D610 | D－2 |
| D611 | E－2 |
| D612 | D－3 |
| D613 | C－3 |
| D614 | C－2 |
| D616 | C－1 |
| D619 | H－1 |
| D620 | H－2 |
| D624 | G－1 |
| D801 | C－7 |
| D802 | C－9 |
| D803 | H－5 |
| D804 | G－4 |
| D808 | G－5 |
| D809 | G－5 |
| D812 | C－11 |
| D813 | C－11 |
| D814 | F－9 |
| D815 | C－8 |
| D816 | B－9 |
| D818 | H－4 |
| D821 | H－4 |
| D822 | F－4 |
| D824 | G－6 |
| D825 | H－6 |
| D826 | C－9 |
| D827 | G－3 |
| D828 | F－4 |
| D830 | H－5 |
| D831 | G－3 |
| D832 | G－4 |
| D833 | G－3 |
| D1501 | H－10 |
| D1503 | G－11 |
| D1504 | H－10 |

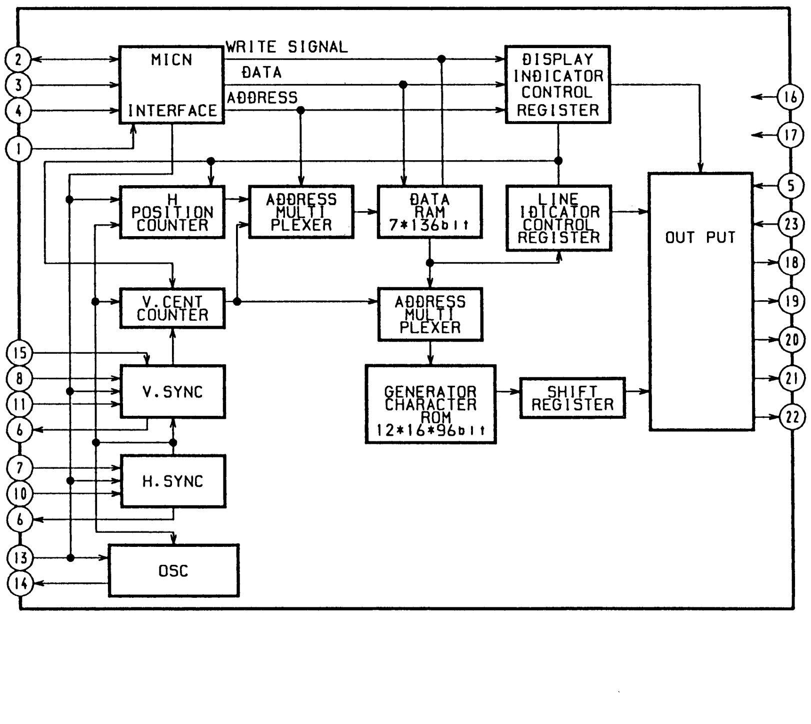
| VARIABLE RESISTOR | |
|---|---|
| RV601 | F－1 |

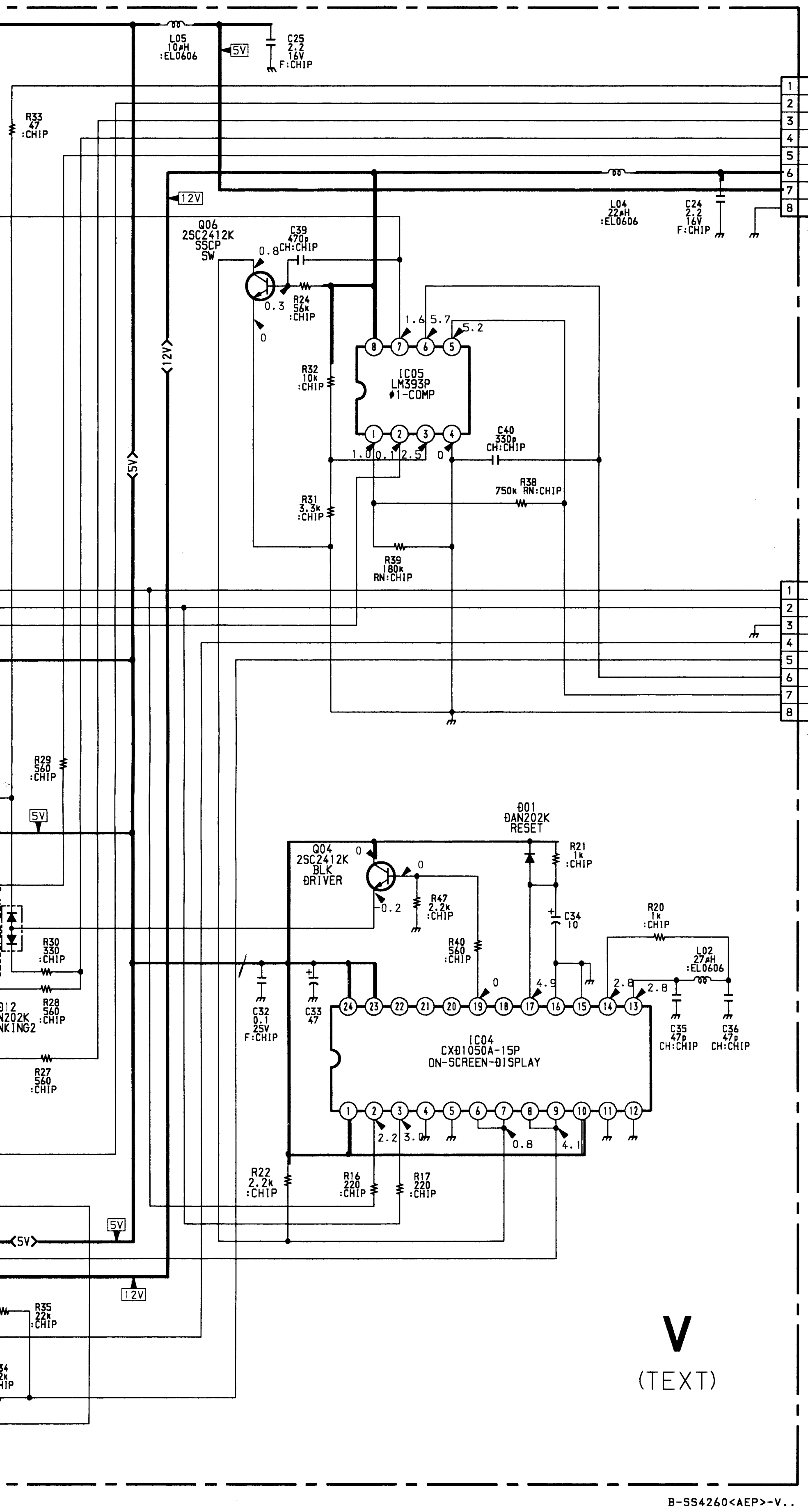
- **D BOARD IC601 TDA4605-3**


6
2
5
REFERENCE VOLTAGE TYP.3V
SUPPLY VOLTAGE MONITOR
V2B
PRIMARY CURRENT REPRODUCER
OUTPUT STAGE AND CURRENT LIMIT
Vref
V6min V6A V6E V6MAX
VST
STARTING IMPULSE GENERATOR
4
CURRENT SOURCE
VR
REGULATING & OVERLOAD AMPLIFIER
LOGIC
1
STOP COMPARATOR
OVERLOAD POINT CORRECTION
VV
LOW VOLTAGE PROTECTION
ZERO TRANSIT DETECTOR
3
7
8

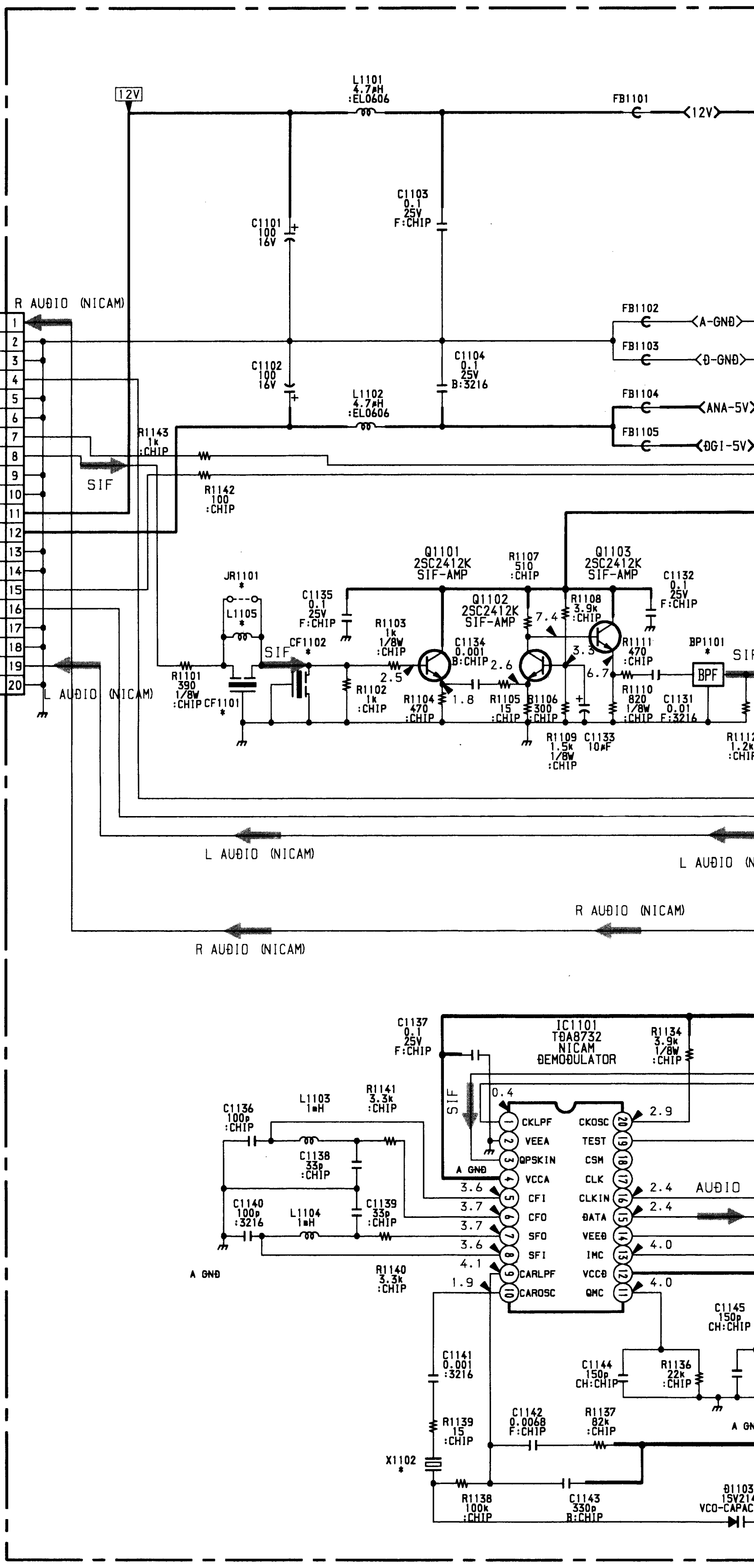

IC03
MCM514256AP80
MEMORY
IC01
CCT
IC02
SDA5231-2
DATA-SLICER
Q07
2SC2412K
BLK-OUT
Q11
2SC2412K
BUFFER
Q10
2SC2412K
BUFFER
Q09
2SC2412K
BUFFER
Q03
2SC2412K
YM-OUT
Q08
2SA1037K
IMPULSE-SEP
Q01
2SC2412K
SW
Q12
DTC124EK
SW
D09
DAN202K
HALF-BLANKING-SW
D10
DAN202K
HALF-BLANKING
D11
DAN202K
BLANKING1
D12
DAN202K
BLANKING2
D03
DAP202K
BLK-G
D04
DAP202K
V-TIN-SW
X02
13.875MHz
CLOCK
CT01
30p
5V
12V

## • V BOARD IC04 CXD1050A-15P


MICN
INTERFACE
WRITE SIGNAL
DATA
ADDRESS
DISPLAY INDICATOR CONTROL REGISTER
H POSITION COUNTER
ADDRESS MULTI PLEXER
DATA RAM 7*136bit
LINE INDICATOR CONTROL REGISTER
OUT PUT
V.CENT COUNTER
ADDRESS MULTI PLEXER
GENERATOR CHARACTER ROM 12*16*96bit
SHIFT REGISTER
V.SYNC
H.SYNC
OSC
1
2
3
4
5
6
7
8
10
11
13
14
15
16
17
18
19
20
21
22
23


CN1737
8P
WHT
:S-MICRO
1 BLK
2 YM
3 R
4 G
5 B
6 +12V
7 +5V
8 GND
TO A BOARD
CN0137
CN1741
8P
RED
:S-MICRO
1 SDA
2 SCL
3 GND
4 VIDEO
5 V.PULSE
6 H.SAW
7 REF
8 GND
TO M BOARD
CN1441
L05 10μH :EL0606
C25 2.2 16V F:CHIP
L04 22μH :EL0606
C24 2.2 16V F:CHIP
Q06 2SC2412K SSCP SW
C39 470p CH:CHIP
R24 56k :CHIP
R32 10k :CHIP
R31 3.3k :CHIP
IC05 LM393P ϕ1-COMP
C40 330p CH:CHIP
R38 750k RN:CHIP
R39 180k RN:CHIP
R33 47 :CHIP
R29 560 :CHIP
R30 330 :CHIP
R28 560 :CHIP
R27 560 :CHIP
R35 22k :CHIP
D01 DAN202K RESET
Q04 2SC2412K BLK DRIVER
R21 1k :CHIP
R47 2.2k :CHIP
R40 560 :CHIP
C34 10
R20 1k :CHIP
L02 27μH :EL0606
C32 0.1 25V F:CHIP
C33 47
IC04 CXD1050A-15P ON-SCREEN-DISPLAY
C35 47p CH:CHIP
C36 47p CH:CHIP
R22 2.2k :CHIP
R16 220 :CHIP
R17 220 :CHIP
5V
12V
V
(TEXT)
B-SS4260<AEP>-V..

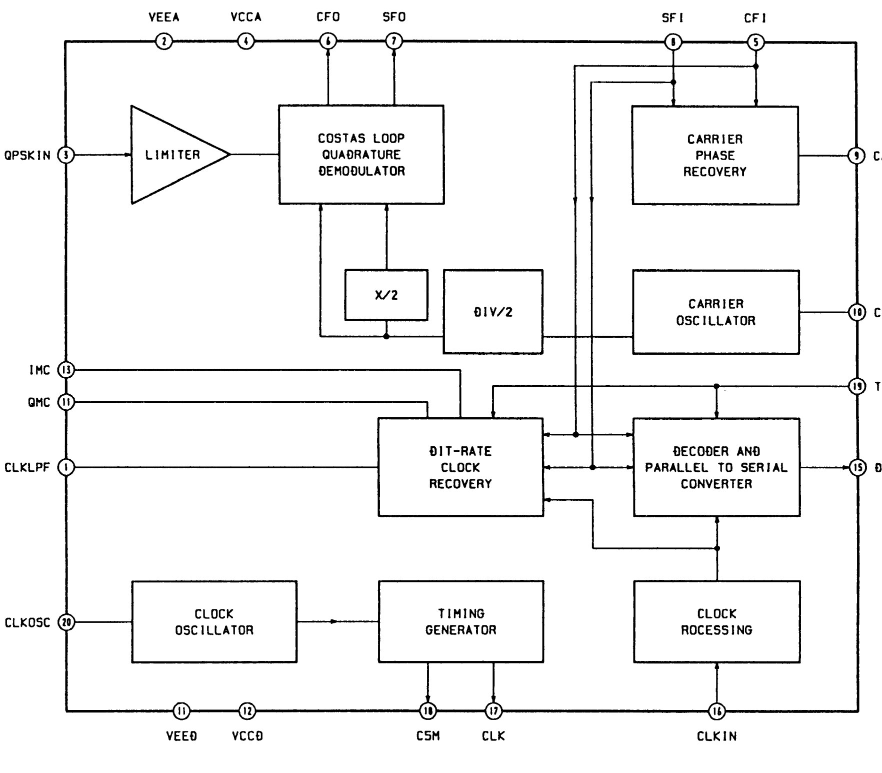
## KV-B2512U/B2513E only

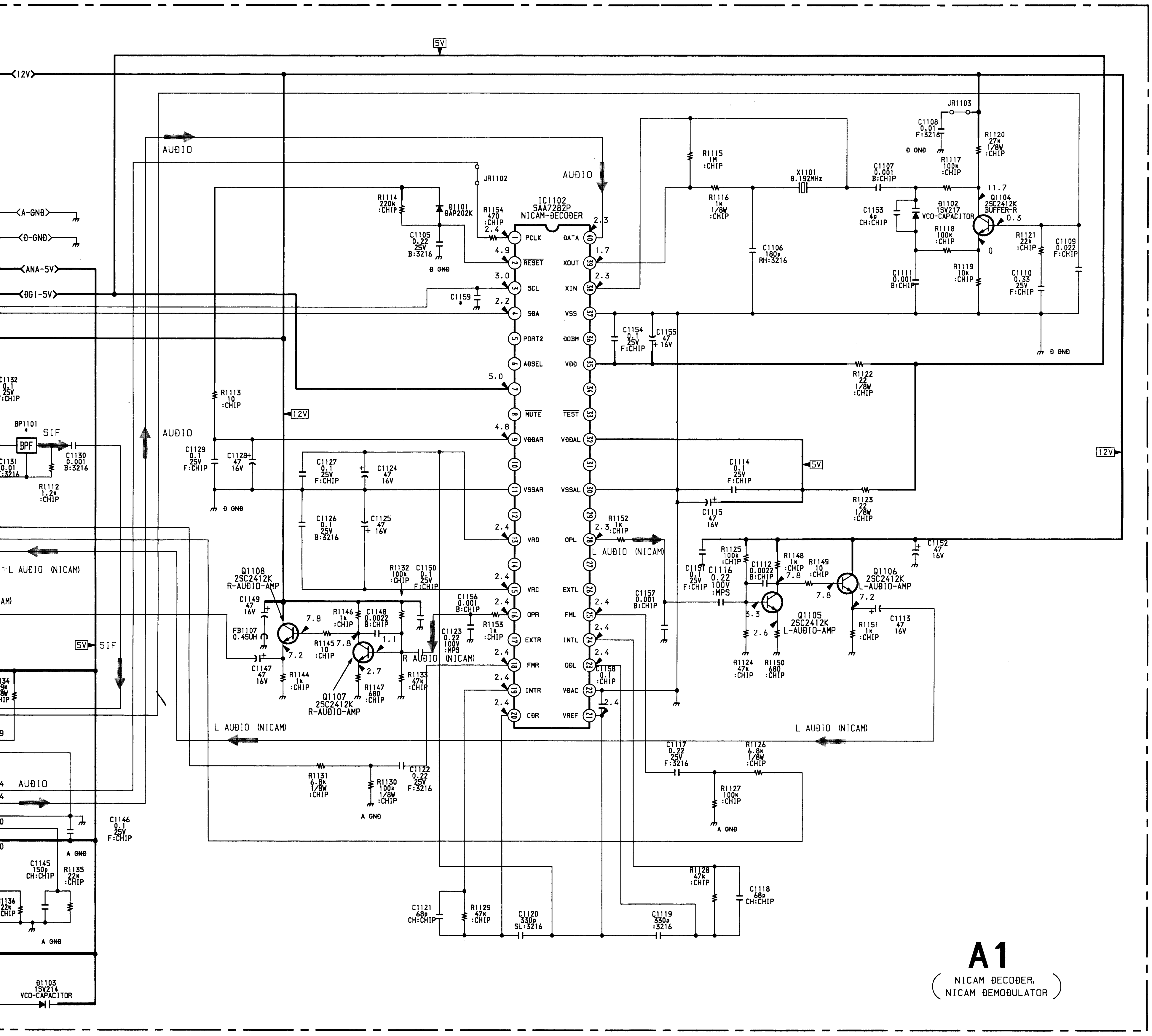

CN0201
20P
WHT
BTOB-P
1 R OUT
2 GND
3 GND
4 RIN
5 GND
6 GND
7 SCL
8 SIF
9 GND
10 GND
11 12V
12 5V
13 GND
14 GND
15 SDA
16 L IN
17 GND
18 GND
19 L OUT
20 GND
TO A BOARD
CN0101
R AUDIO (NICAM)
L AUDIO (NICAM)
SIF
12V
L1101 4.7μH :EL0606
L1102 4.7μH :EL0606
C1101 100 16V
C1102 100 16V
C1103 0.1 25V F:CHIP
C1104 0.1 25V B:3216
FB1101 <12V>
FB1102 <A-GND>
FB1103 <D-GND>
FB1104 <ANA-5V>
FB1105 <DGI-5V>
R1143 1k :CHIP
R1142 100 :CHIP
Q1101 2SC2412K SIF-AMP
Q1102 2SC2412K SIF-AMP
Q1103 2SC2412K SIF-AMP
JR1101
L1105
C1135 0.1 25V F:CHIP
CF1102
CF1101
R1101 390 1/8W :CHIP
R1102 1k :CHIP
R1103 1k 1/8W :CHIP
R1104 470 :CHIP
C1134 0.001 B:CHIP
R1105 15 :CHIP
R1106 300 B:CHIP
R1107 510 :CHIP
R1108 3.9k :CHIP
R1109 1.5k 1/8W :CHIP
C1133 10μF
R1110 820 1/8W :CHIP
R1111 470 :CHIP
C1131 0.01 F:3216
C1132 0.1 25V F:CHIP
BP1101 BPF
IC1101 TDA8732 NICAM DEMODULATOR
C1137 0.1 25V F:CHIP
R1134 3.9k 1/8W :CHIP
R1141 3.3k :CHIP
L1103 1mH
C1136 100p :CHIP
C1138 33p :CHIP
C1140 100p :3216
L1104 1mH
C1139 33p :CHIP
R1140 3.3k :CHIP
C1141 0.001 :3216
R1139 15 :CHIP
X1102
R1138 100k :CHIP
C1142 0.0068 F:CHIP
R1137 82k :CHIP
C1143 330p B:CHIP
C1144 150p CH:CHIP
R1136 22k :CHIP
C1145 150p CH:CHIP
D1103 1SV214 VCO-CAPAC
CKLPF VEEA QPSKIN VCCA CFI CFO SFO SFI CARLPF CAROSC
CKOSC TEST CSM CLK CLKIN DATA VEED IMC VCCD QMC
AUDIO
A GND

**• V BOARD**

| | KV-B2911K | OTHERS |
|---|---|---|
| IC01 | SDA5248C2 | SDA5248C1 |

**• A1 BOARD IC1101 TDA8732**

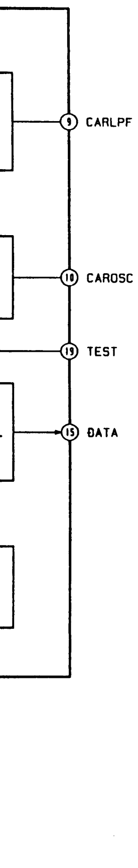

VEEA
VCCA
CFO
SFO
SFI
CFI
QPSKIN
LIMITER
COSTAS LOOP QUADRATURE DEMODULATOR
CARRIER PHASE RECOVERY
X/2
DIV/2
CARRIER OSCILLATOR
IMC
QMC
CLKLPF
BIT-RATE CLOCK RECOVERY
DECODER AND PARALLEL TO SERIAL CONVERTER
CLKOSC
CLOCK OSCILLATOR
TIMING GENERATOR
CLOCK ROCESSING
VEED
VCCD
CSM
CLK
CLKIN


5V
12V
A-GND
D-GND
ANA-5V
DGI-5V
AUDIO
JR1102
IC1102
SAA7282P
NICAM-DECODER
PCLK
RESET
SCL
SDA
PORT2
ADSEL
MUTE
VDDAR
VSSAR
VRO
VRC
OPR
EXTR
FMR
INTR
CDR
DATA
XOUT
XIN
VSS
DDBM
VDD
TEST
VDDAL
VSSAL
OPL
EXTL
FML
INTL
DDL
VDAC
VREF
R1114 220k :CHIP
D1101 BAP202K
R1154 470 :CHIP
C1105 0.22 25V B:3216
C1159 *
R1113 10 :CHIP
BP1101 * SIF
BPF
C1130 0.001 B:3216
C1131 0.01
R1112 1.2k :CHIP
C1132 0.1 25V :CHIP
C1129 0.1 25V F:CHIP
C1128 47 16V
C1127 0.1 25V F:CHIP
C1124 47 16V
C1126 0.1 25V B:3216
C1125 47 16V
Q1108 2SC2412K R-AUDIO-AMP
C1149 47 16V
FB1107 0.45UH
C1147 47 16V
R1144 1k :CHIP
R1146 1k :CHIP
C1148 0.0022 B:CHIP
R1145 10 :CHIP
Q1107 2SC2412K R-AUDIO-AMP
R1147 680 :CHIP
R1132 100k :CHIP
C1150 0.1 25V F:CHIP
C1156 0.001 B:CHIP
R1153 1k :CHIP
C1123 0.22 100V :MPS
R1133 47k :CHIP
R AUDIO (NICAM)
L AUDIO (NICAM)
C1154 0.1 25V F:CHIP
C1155 47 16V
R1152 1k :CHIP
C1158 0.1 :CHIP
C1157 0.001 B:CHIP
R1115 1M :CHIP
R1116 1k 1/8W :CHIP
X1101 8.192MHz
C1106 180p RH:3216
C1107 0.001 B:CHIP
C1108 0.01 F:3216
JR1103
R1117 100k :CHIP
R1120 27k 1/8W :CHIP
C1153 4p CH:CHIP
D1102 1SV217 VCO-CAPACITOR
Q1104 2SC2412K BUFFER-R
R1118 100k :CHIP
R1121 22k :CHIP
C1109 0.022 F:CHIP
C1111 0.001 B:CHIP
R1119 10k :CHIP
C1110 0.33 25V F:CHIP
R1122 22 1/8W :CHIP
C1114 0.1 25V F:CHIP
C1115 47 16V
R1123 22 1/8W :CHIP
C1152 47 16V
R1125 100k :CHIP
C1151 0.1 25V F:CHIP
C1116 0.22 100V :MPS
C1112 0.0022 B:CHIP
R1148 1k :CHIP
R1149 10 :CHIP
Q1106 2SC2412K L-AUDIO-AMP
Q1105 2SC2412K L-AUDIO-AMP
C1113 47 16V
R1151 1k :CHIP
R1124 47k :CHIP
R1150 680 :CHIP
C1117 0.22 25V F:3216
R1126 6.8k 1/8W :CHIP
R1127 100k :CHIP
R1131 6.8k 1/8W :CHIP
R1130 100k 1/8W :CHIP
C1122 0.22 25V F:3216
C1146 0.1 25V F:CHIP
C1145 150p CH:CHIP
R1135 22k :CHIP
R1136 22k :CHIP
D1103 1SV214 VCO-CAPACITOR
R1128 47k :CHIP
C1118 68p CH:CHIP
C1121 68p CH:CHIP
R1129 47k :CHIP
C1120 330p SL:3216
C1119 330p :3216
A GND
D GND
12V
5V
SIF

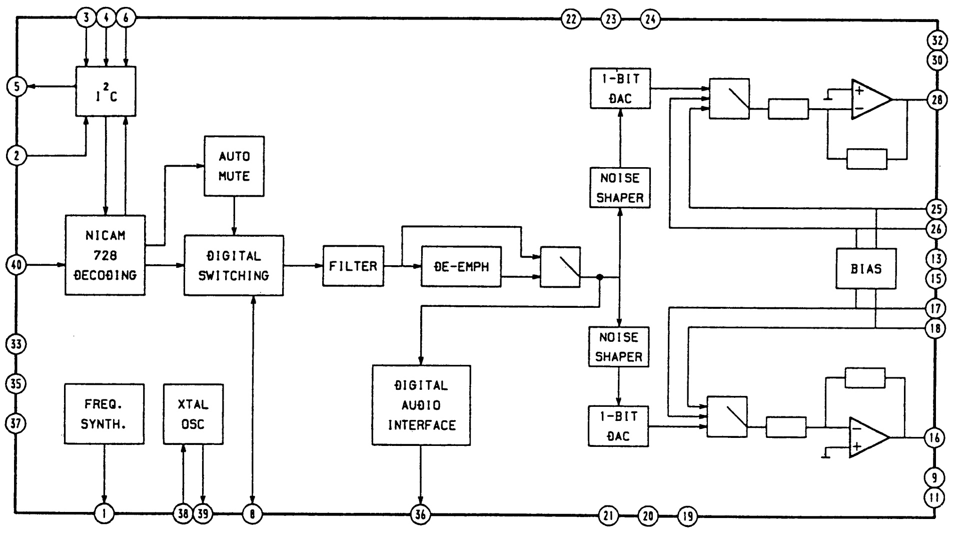
# A1

( NICAM DECODER, NICAM DEMODULATOR )

B-SS4260<AEP>-A1.


9 CARLPF
10 CAROSC
19 TEST
15 DATA

• **A1 BOARD IC1102 SAA7282P**

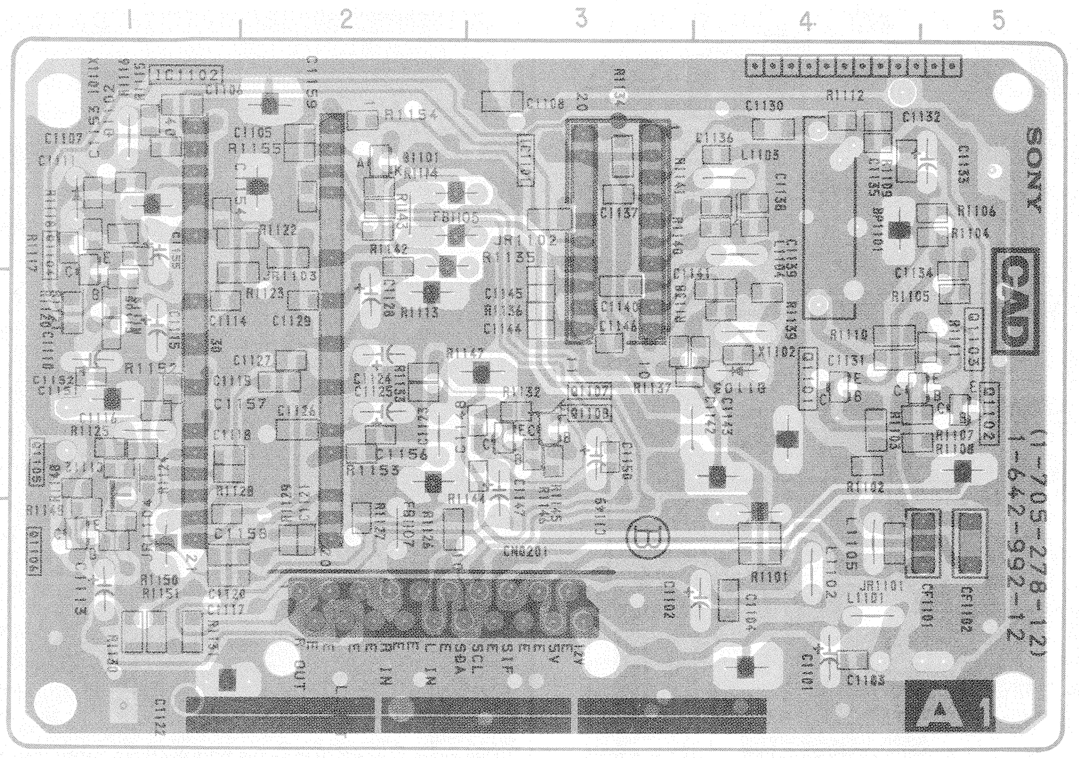

I²C
AUTO MUTE
NICAM 728 DECODING
DIGITAL SWITCHING
FILTER
DE-EMPH
1-BIT DAC
NOISE SHAPER
BIAS
NOISE SHAPER
1-BIT DAC
DIGITAL AUDIO INTERFACE
FREQ. SYNTH.
XTAL OSC
3 4 6 5 2 40 33 35 37 1 38 39 8 36 21 20 19 22 23 24 32 30 28 25 26 13 15 17 18 16 9 11

• **A1 BOARD (KV-B2512U/B2513E only)**

| | KV-B2513E | KV-B2512U |
|---|---|---|
| BP1101 | 5.850MHz | 6.552MHz |
| C1159 | – | 47P : CHIP |
| CF1101 | – | 6.0MHz |
| CF1102 | 5.5MHz | – |
| JR1101 | 0 : CHIP | – |
| L1105 | – | 15 μ H |
| X1102 | 11.700MHz | 13.104MHz |

# A1 [NICAM DECODER, NICAM DEMODULATOR] V [TEXT] C [R. G. B OUT]

## – A1 BOARD – (KV-B2512U/B2513E only)


SONY
CAD
A1
1-705-278-12
1-642-992-12
IC1101
IC1102
CN8201

| IC | |
|---|---|
| IC1101 | A – 3 |
| IC1102 | B – 2 |

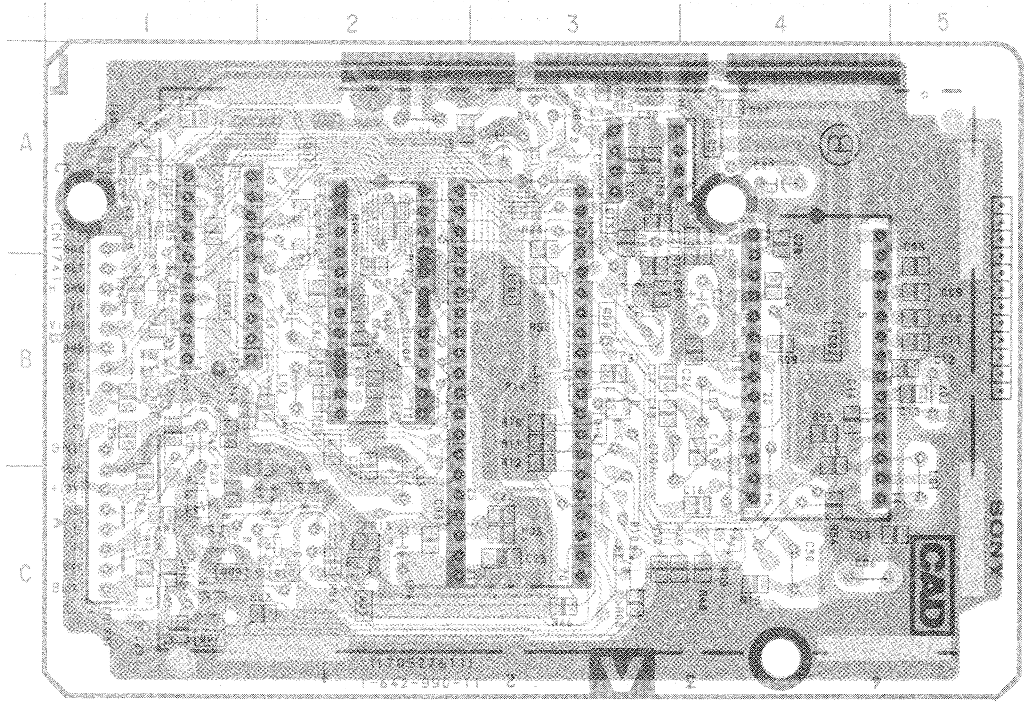
| TRANSISTOR | |
|---|---|
| Q1101 | B – 4 |
| Q1102 | B – 5 |
| Q1103 | B – 5 |
| Q1104 | A – 1 |
| Q1105 | B – 1 |
| Q1106 | C – 1 |
| Q1107 | B – 3 |
| Q1108 | B – 3 |

| DIODE | |
|---|---|
| D1101 | A – 2 |
| D1102 | A – 1 |
| D1103 | B – 4 |

Note :

- ▒ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

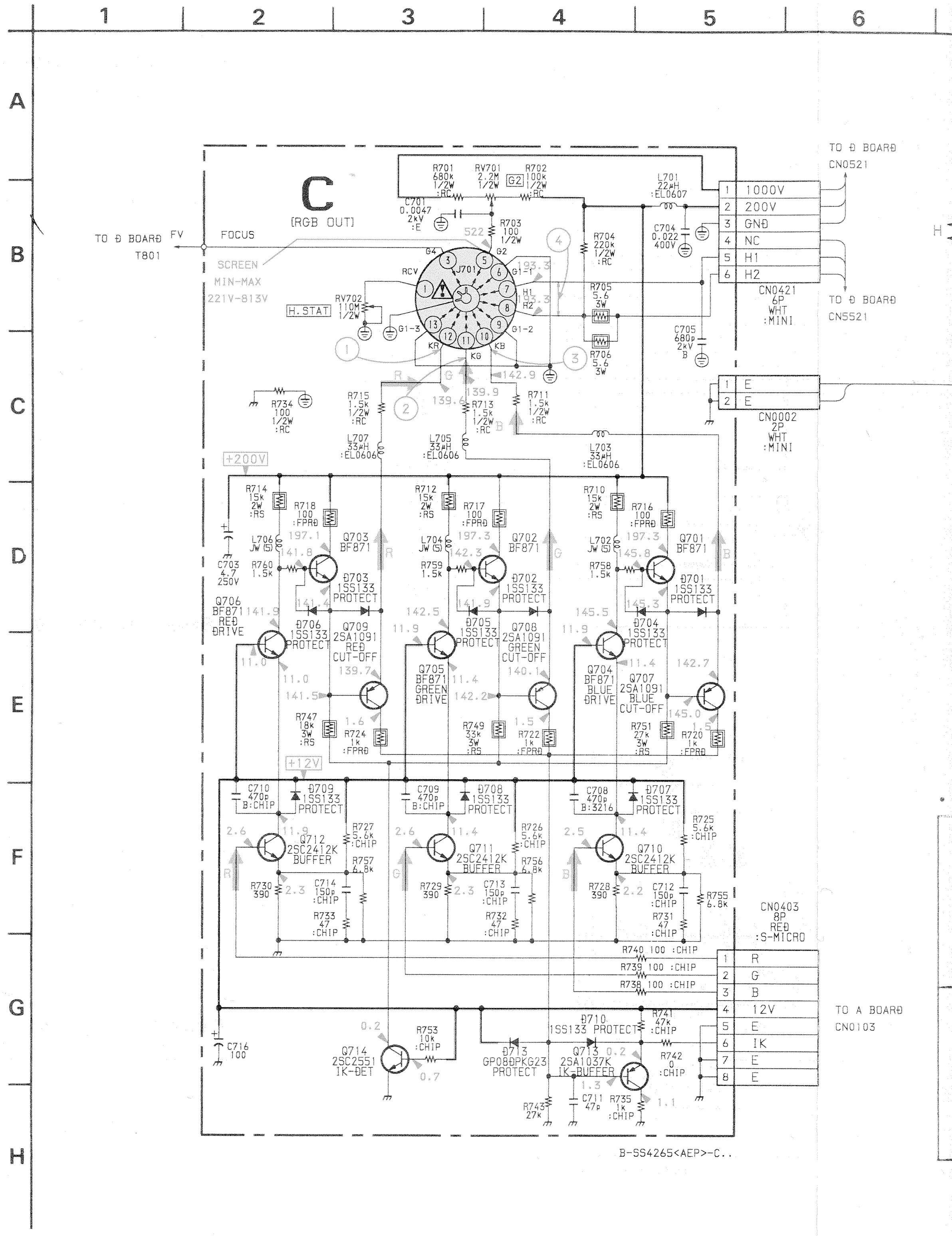
## – V BOARD –

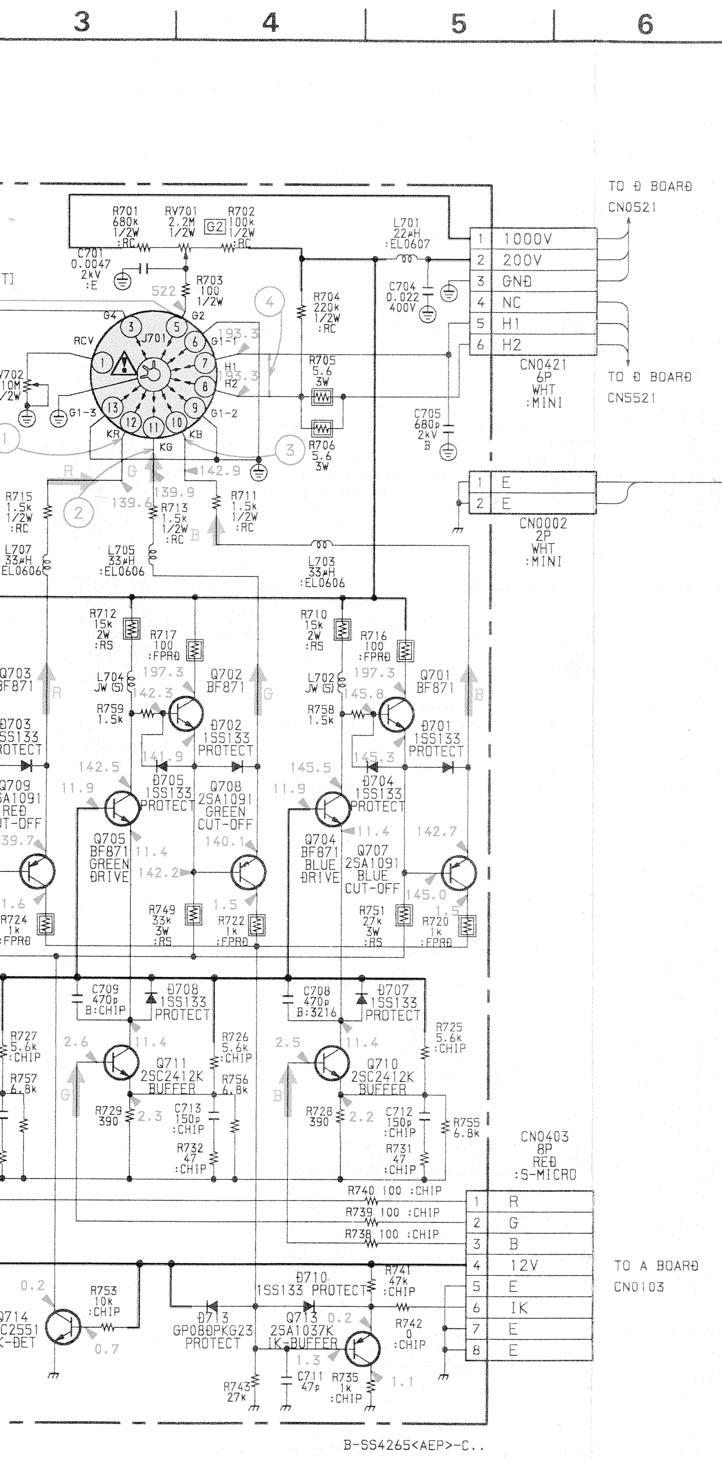

SONY
CAD
V
1-642-990-11
IC01
IC02
IC03
IC04
IC05

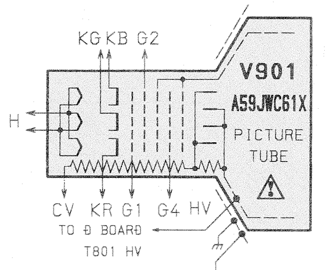
| IC | |
|---|---|
| IC01 | B – 3 |
| IC02 | B – 4 |
| IC03 | B – 1 |
| IC04 | B – 2 |
| IC05 | A – 4 |

| TRANSISTOR | |
|---|---|
| Q01 | A – 1 |
| Q03 | C – 2 |
| Q04 | B – 2 |
| Q06 | B – 3 |
| Q07 | C – 1 |
| Q08 | A – 1 |
| Q09 | C – 1 |
| Q010 | C – 2 |
| Q011 | C – 2 |
| Q012 | C – 3 |

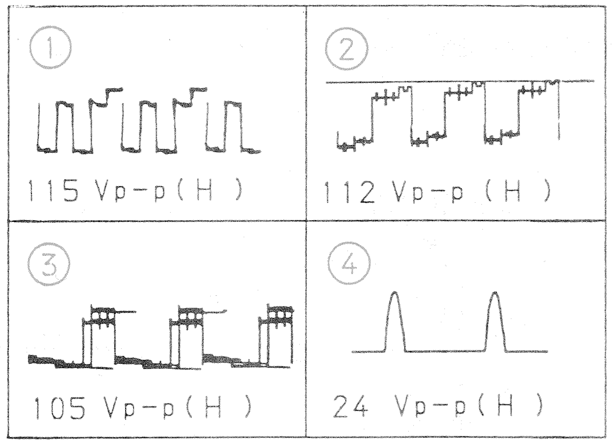
| DIODE | |
|---|---|
| D01 | B – 2 |
| D03 | B – 1 |
| D04 | B – 1 |
| D09 | C – 4 |
| D010 | C – 3 |
| D011 | C – 2 |
| D012 | C – 1 |


C
(RGB OUT)
TO D BOARD T801
FV
FOCUS
SCREEN MIN-MAX 221V-813V
H.STAT
J701
TO D BOARD CN0521
CN0421 6P WHT :MINI
TO D BOARD CN5521
1000V
200V
GND
NC
H1
H2
CN0002 2P WHT :MINI
E
+200V
+12V
Q703 BF871
Q702 BF871
Q701 BF871
Q706 BF871 RED DRIVE
Q705 BF871 GREEN DRIVE
Q704 BF871 BLUE DRIVE
Q709 2SA1091 RED CUT-OFF
Q708 2SA1091 GREEN CUT-OFF
Q707 2SA1091 BLUE CUT-OFF
D703 1SS133 PROTECT
D702 1SS133 PROTECT
D701 1SS133 PROTECT
D706 1SS133 PROTECT
D705 1SS133 PROTECT
D704 1SS133 PROTECT
D709 1SS133 PROTECT
D708 1SS133 PROTECT
D707 1SS133 PROTECT
Q712 2SC2412K BUFFER
Q711 2SC2412K BUFFER
Q710 2SC2412K BUFFER
Q714 2SC2551 IK-DET
D713 GP08DPKG23 PROTECT
D710 1SS133 PROTECT
Q713 2SA1037K IK-BUFFER
CN0403 8P RED :S-MICRO
R
G
B
12V
E
IK
TO A BOARD CN0103
B-SS4265<AEP>-C..

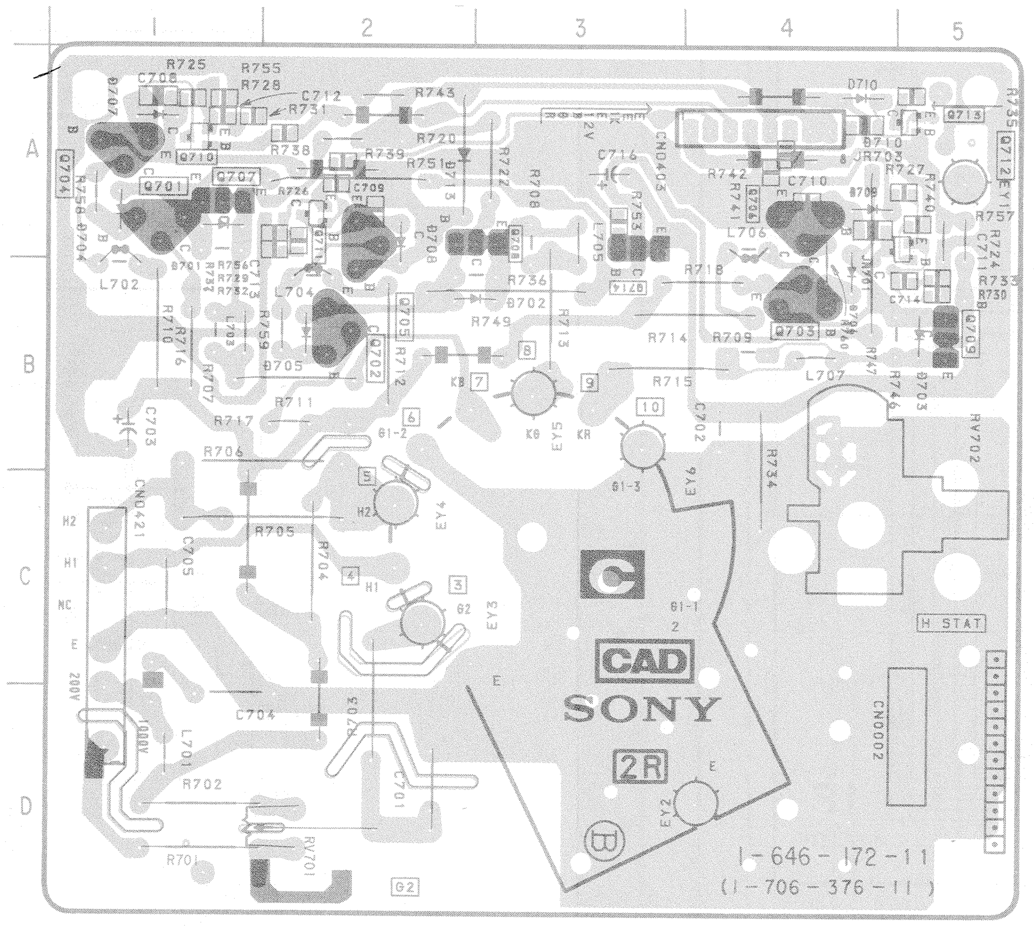

3
4
5
6
7
8
9
10
R701 680k 1/2W :RC
RV701 2.2M 1/2W
G2
R702 100k 1/2W :RC
C701 0.0047 2kV :E
R703 100 1/2W
522
J701
RCV
G4
G2
G1-1
193.3
H1
H2
G1-3
G1-2
KR
KG
KB
R704 220k 1/2W :RC
R705 5.6 3W
R706 5.6 3W
L701 22μH :EL0607
C704 0.022 400V
C705 680p 2kV B
1 1000V
2 200V
3 GND
4 NC
5 H1
6 H2
CN0421 6P WHT :MINI
TO D BOARD CN0521
TO D BOARD CN5521
1 E
2 E
CN0002 2P WHT :MINI
142.9
139.9
139.6
R715 1.5k 1/2W :RC
R713 1.5k 1/2W :RC
R711 1.5k 1/2W :RC
L707 33μH :EL0606
L705 33μH :EL0606
L703 33μH :EL0606
R712 15k 2W :RS
R717 100 :FPRD
R710 15k 2W :RS
R716 100 :FPRD
Q703 BF871
Q702 BF871
Q701 BF871
L704 JW (5)
L702 JW (5)
197.3
142.3
145.8
R759 1.5k
R758 1.5k
D703 1SS133 PROTECT
D702 1SS133 PROTECT
D701 1SS133 PROTECT
142.5
141.9
145.5
145.3
11.9
Q709 2SA1091 RED CUT-OFF
D705 1SS133 PROTECT
Q708 2SA1091 GREEN CUT-OFF
D704 1SS133 PROTECT
Q705 BF871 GREEN DRIVE
Q704 BF871 BLUE DRIVE
Q707 2SA1091 BLUE CUT-OFF
11.4
140.1
142.7
142.2
145.0
1.6
1.5
R724 1k :FPRD
R749 33k 3W :RS
R722 1k :FPRD
R751 27k 3W :RS
R720 1k :FPRD
C709 470p B:CHIP
D708 1SS133 PROTECT
C708 470p B:3216
D707 1SS133 PROTECT
R727 5.6k :CHIP
R726 5.6k :CHIP
R725 5.6k :CHIP
2.6
2.5
Q711 2SC2412K BUFFER
Q710 2SC2412K BUFFER
R757 6.8k
R756 6.8k
R755 6.8k
R729 390
R728 390
2.3
2.2
C713 150p :CHIP
C712 150p :CHIP
R732 47 :CHIP
R731 47 :CHIP
CN0403 8P RED :S-MICRO
R740 100 :CHIP
R739 100 :CHIP
R738 100 :CHIP
1 R
2 G
3 B
4 12V
5 E
6 IK
7 E
8 E
TO A BOARD CN0103
0.2
0.7
Q714 2SC2551 IK-DET
R753 10k :CHIP
D710 1SS133 PROTECT
R741 47k :CHIP
D713 GP08DPKG23 PROTECT
Q713 2SA1037K IK-BUFFER
R742 0 :CHIP
1.3
1.1
R743 27k
C711 47p
R735 1k :CHIP
B-SS4265<AEP>-C..


KG KB G2
H
V901
A59JWC61X
PICTURE TUBE
CV KR G1 G4 HV
TO D BOARD T801 HV

• WAVEFORMS C BOARD



– C BOARD –


1
2
3
4
5
A
B
C
D
R725
R755
R728
C708
C712
R731
R743
R720
R738
R739
R751
Q701
Q707
Q710
C709
R722
R708
CN0403
C716
R742
R741
C710
Q706
D710
Q713
R727
R757
R724
R733
R730
C714
Q712
Q709
Q703
Q705
Q702
Q704
Q708
D701
D702
D705
D707
D709
R736
R702
R749
R713
R714
R718
R709
R715
R711
R717
R712
R716
R759
R758
R707
R710
R704
R705
R706
L702
L703
L704
L705
L706
L707
C702
C703
C704
C705
CN0421
H2
H1
NC
E
200V
1000V
L701
R702
R701
RV701
RV702
G2
KG
KB
KR
EY4
EY5
EY3
EY2
G1-1
G1-2
G1-3
H STAT
CN0002
C
CAD
SONY
2R
B
1-646-172-11
(1-706-376-11)

## TRANSISTOR

| | |
|---|---|
| Q701 | A-1 |
| Q702 | B-2 |
| Q703 | B-4 |
| Q704 | A-1 |
| Q705 | B-2 |
| Q706 | A-4 |
| Q707 | A-1 |
| Q708 | A-3 |
| Q709 | B-5 |
| Q710 | A-1 |
| Q711 | A-2 |
| Q712 | A-5 |
| Q713 | A-5 |
| Q714 | A-3 |

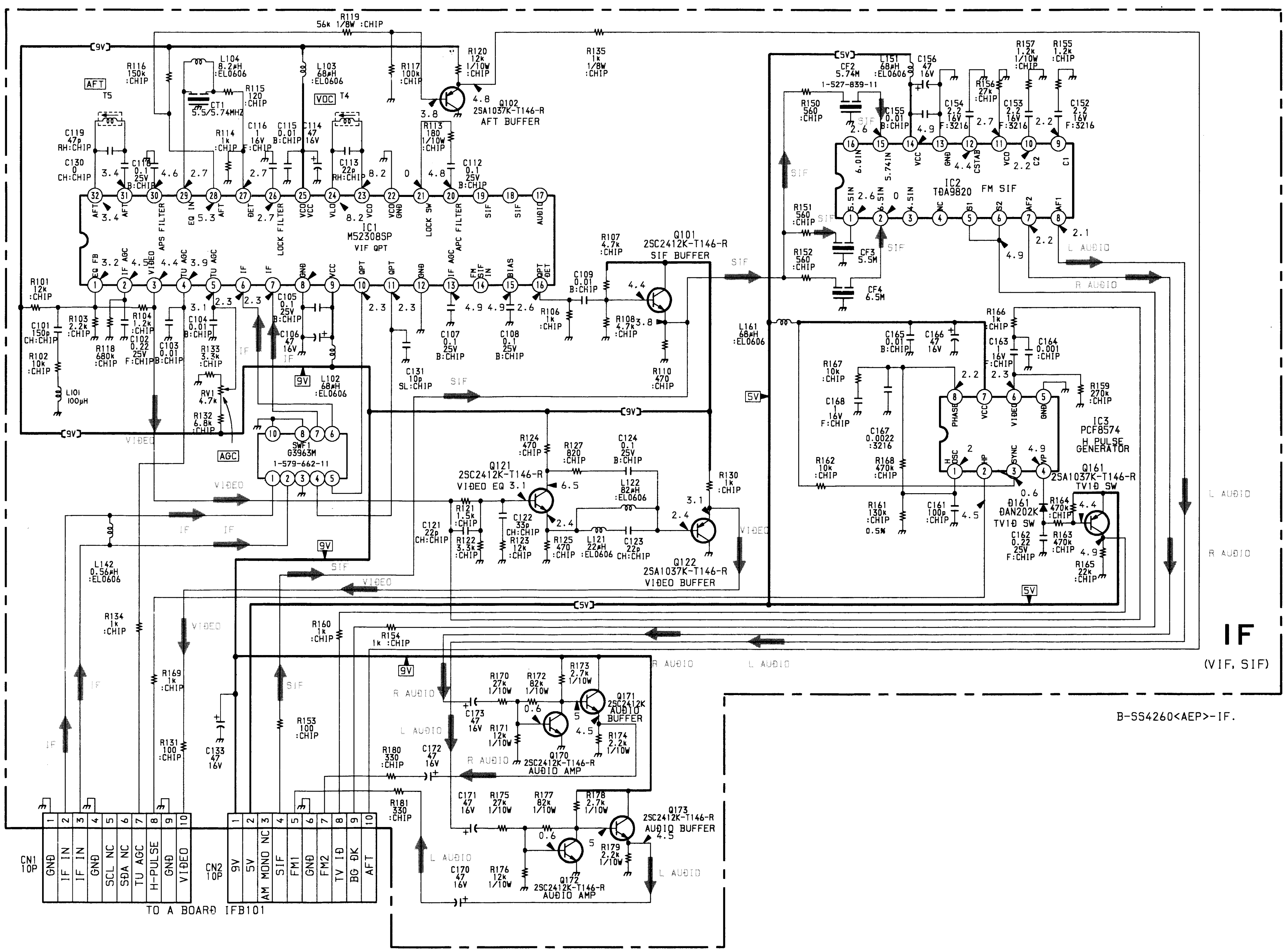
## DIODE

| | |
|---|---|
| D701 | A-1 |
| D702 | B-3 |
| D703 | B-5 |
| D704 | A-1 |
| D705 | B-2 |
| D706 | B-4 |
| D707 | A-1 |
| D708 | A-2 |
| D709 | A-4 |
| D710 | A-4 |
| D713 | A-2 |

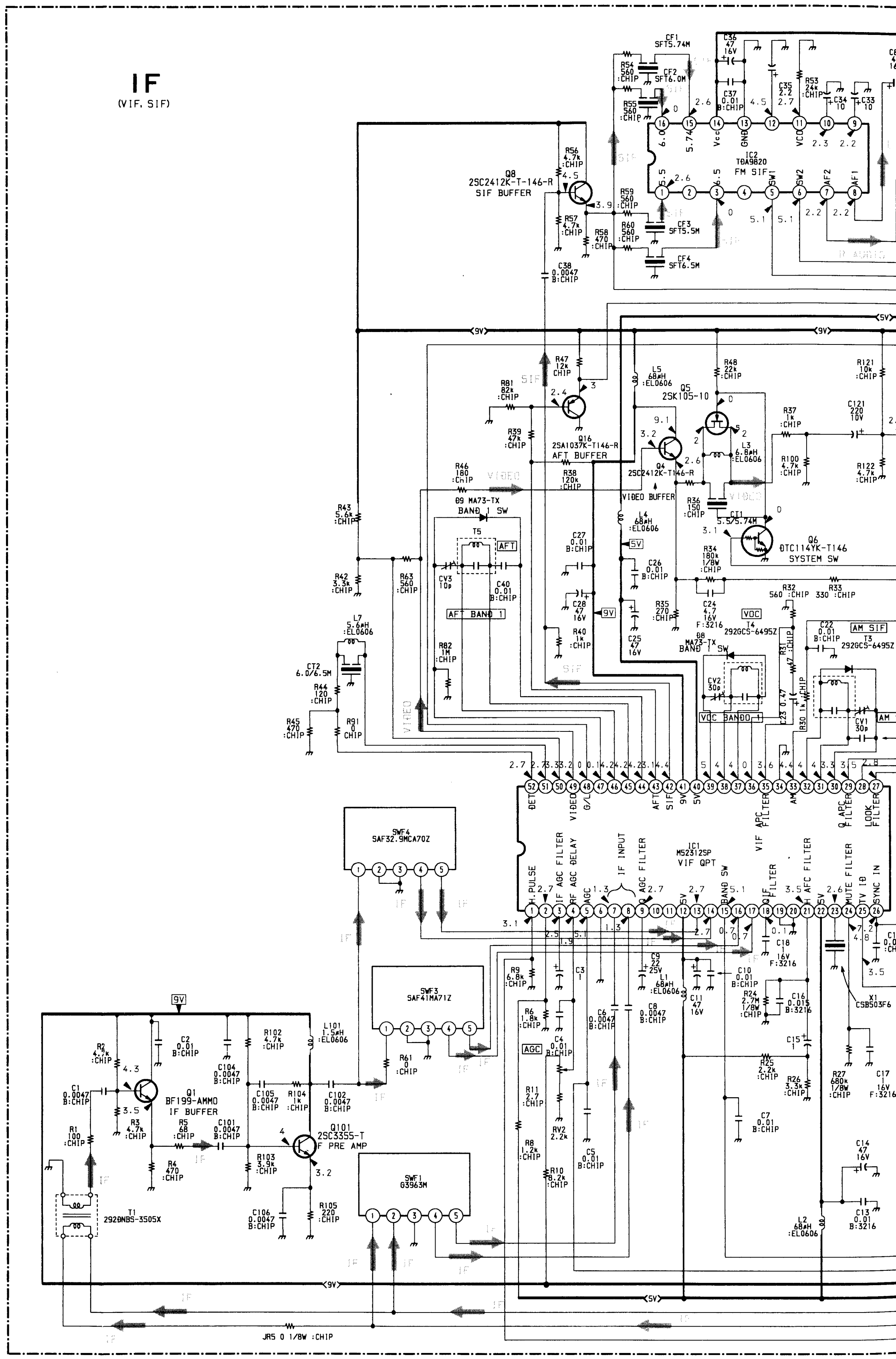
## VARIABLE RESISTOR

| | |
|---|---|
| RV701 | D-2 |
| RV702 | C-4 |

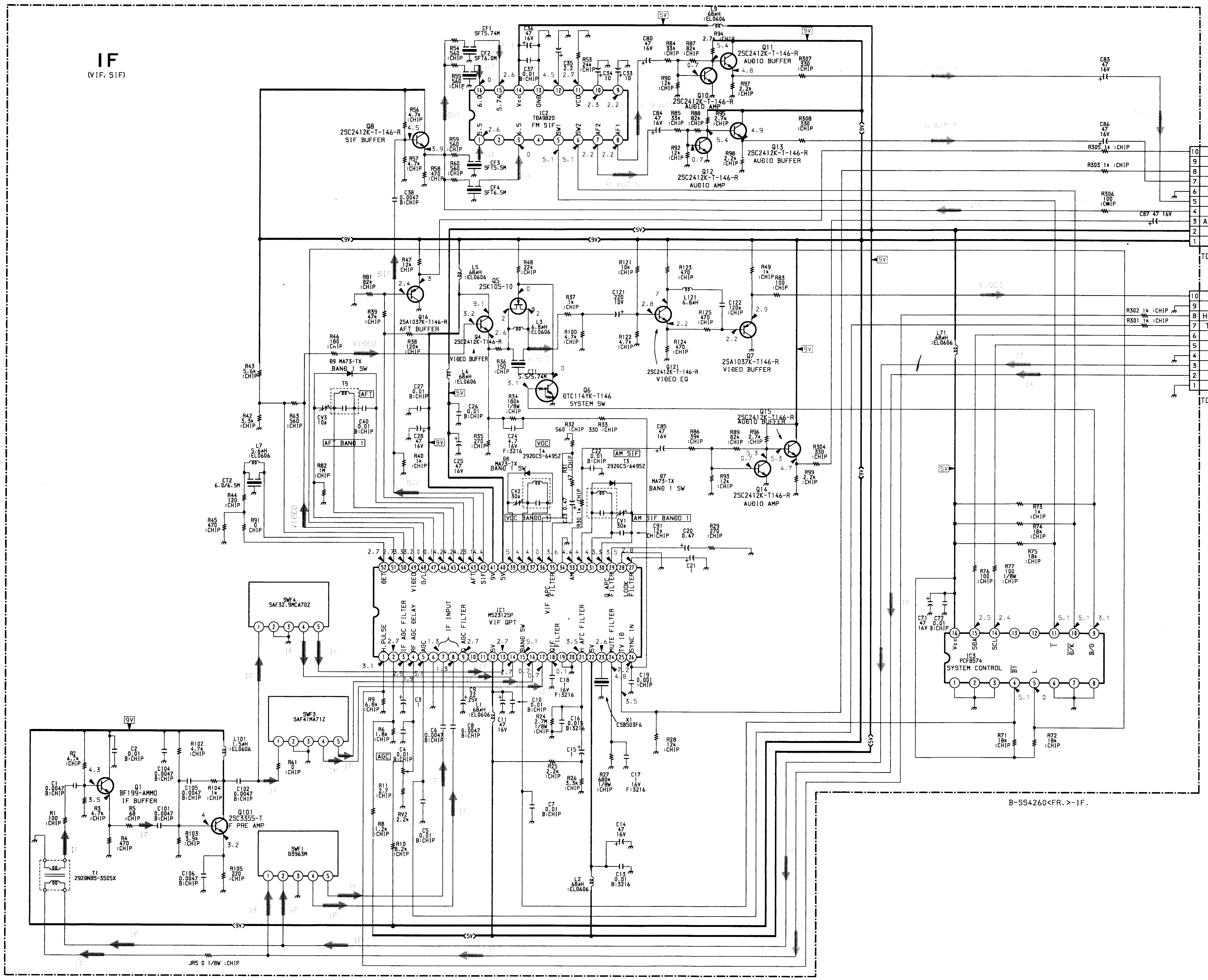
## IFH389 (KV-B2511A/B2511D/B2513E/B2511K)


IF
(VIF, SIF)
B-SS4260<AEP>-IF.
IC1
M52308SP
VIF QPT
IC2 TDA9820 FM SIF
IC3
PCF8574
H PULSE GENERATOR
Q101 2SC2412K-T146-R SIF BUFFER
Q102 2SA1037K-T146-R AFT BUFFER
Q121 2SC2412K-T146-R VIDEO EQ
Q122 2SA1037K-T146-R VIDEO BUFFER
Q161 2SA1037K-T146-R TV1D SW
D161 DAN202K TV1D SW
Q170 2SC2412K-T146-R AUDIO AMP
Q171 2SC2412K AUDIO BUFFER
Q172 2SC2412K-T146-R AUDIO AMP
Q173 2SC2412K-T146-R AUDIO BUFFER
SWF1 G3963M 1-579-662-11
CF1 5.5/5.74MHZ
CF2 5.74M 1-527-839-11
CF3 5.5M
CF4 6.5M
AFT T5
VOC T4
AGC
9V
5V
SIF
VIDEO
IF
L AUDIO
R AUDIO
CN1 10P
1 GND
2 IF IN
3 IF IN
4 GND
5 SCL NC
6 SDA NC
7 TU AGC
8 H-PULSE
9 GND
10 VIDEO
CN2 10P
1 9V
2 5V
3 AM MONO NC
4 SIF
5 FM1
6 GND
7 FM2
8 TV 1D
9 BG DK
10 AFT
TO A BOARD IFB101

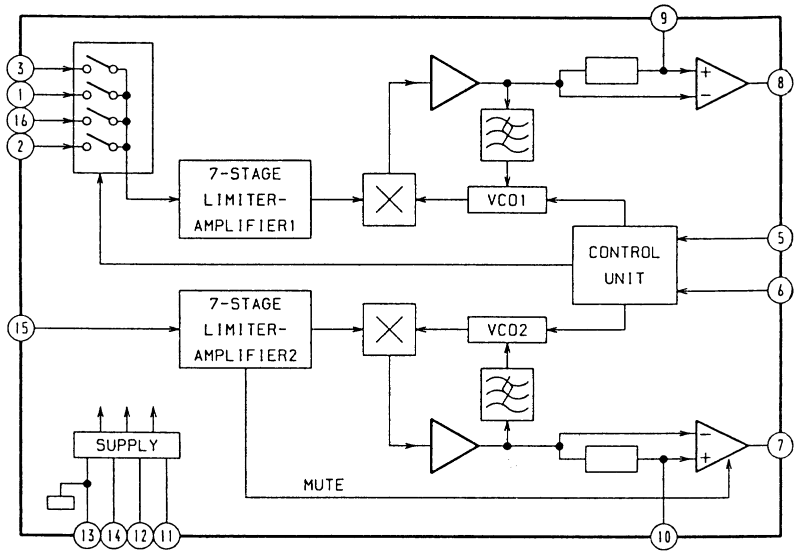
## IFH389S (KV-B2511B only)


IF
(VIF, SIF)
IC1 M52312SP VIF QPT
IC2 TDA9820 FM SIF
Q1 BF199-AMMO IF BUFFER
Q101 2SC3355-T IF PRE AMP
Q8 2SC2412K-T-146-R SIF BUFFER
Q16 2SA1037K-T146-R AFT BUFFER
Q4 2SC2412K-T146-R VIDEO BUFFER
Q5 2SK105-10
Q6 DTC114YK-T146 SYSTEM SW
D9 MA73-TX BAND 1 SW
D8 MA73-TX BAND 1 SW
SWF1 G3963M
SWF3 SAF41MA71Z
SWF4 SAF32.9MCA70Z
T1 2920NBS-3505X
T4 2920CS-6495Z
AFT BAND 1
VOC BAND 1
AM SIF
X1 CSB503F6
JR5 0 1/8W :CHIP

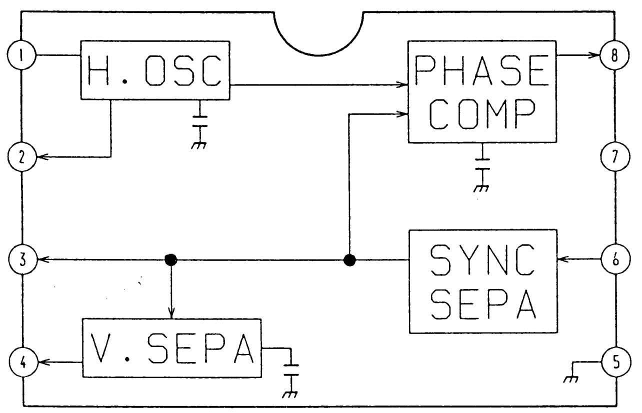
## IFH389S (KV-B2511B only)


IF
(VIF, SIF)
IC2 TDA9820 FM SIF
IC1 M52312SP VIF QPT
IC3 PCF8574 SYSTEM CONTROL
Q8 2SC2412K-T-146-R SIF BUFFER
Q11 2SC2412K-T-146-R AUDIO BUFFER
Q10 2SC2412K-T-146-R AUDIO AMP
Q12 2SC2412K-T-146-R AUDIO AMP
Q13 2SC2412K-T-146-R AUDIO BUFFER
Q16 2SA1037K-T146-R AFT BUFFER
Q5 2SK105-10
Q4 2SC2412K-T146-R VIDEO BUFFER
Q6 DTC114TK-T146 SYSTEM SW
Q121 2SC2412K-T-146-R VIDEO EQ
Q7 2SA1037K-T146-R VIDEO BUFFER
Q15 2SC2412K-T-146-R AUDIO BUFFER
Q14 2SC2412K-T-146-R AUDIO AMP
Q1 BF199-AMMO IF BUFFER
Q101 2SC3355-T IF PRE AMP
SWF4 SAF32.9MCA70Z
SWF3 SAF41MA71Z
SWF1 G3963M
T1 2920N85-3505X
X1 CSB503F6
10 AFT
9 BG/DK
8 TV ID
7 FM2
6 GND
5 FM1
4 SIF
3 AM MONO
2 5V
1 9V
CN2 10P WHT
TO A BOARD IFB101
10 VIDEO
9 GND
8 H-PULSE
7 TU AGC
6 SDA
5 SCL
4 GND
3 IF IN
2 IF IN
1 GND
CN1 10P WHT
TO A BOARD IFB101
B-SS4260<FR.>-IF.
JR5 0 1/8W :CHIP

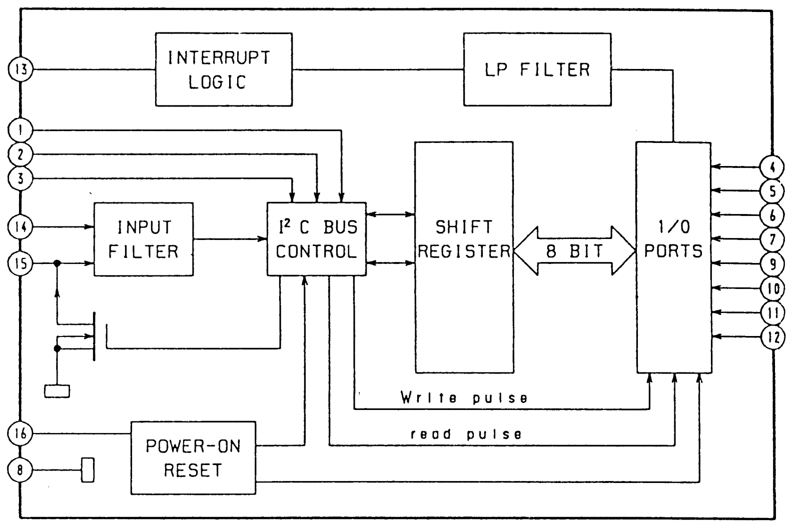
## • IF BOARD IC2 TDA9820 (KV-B2511A/B2511D/B2513E/B2511K)

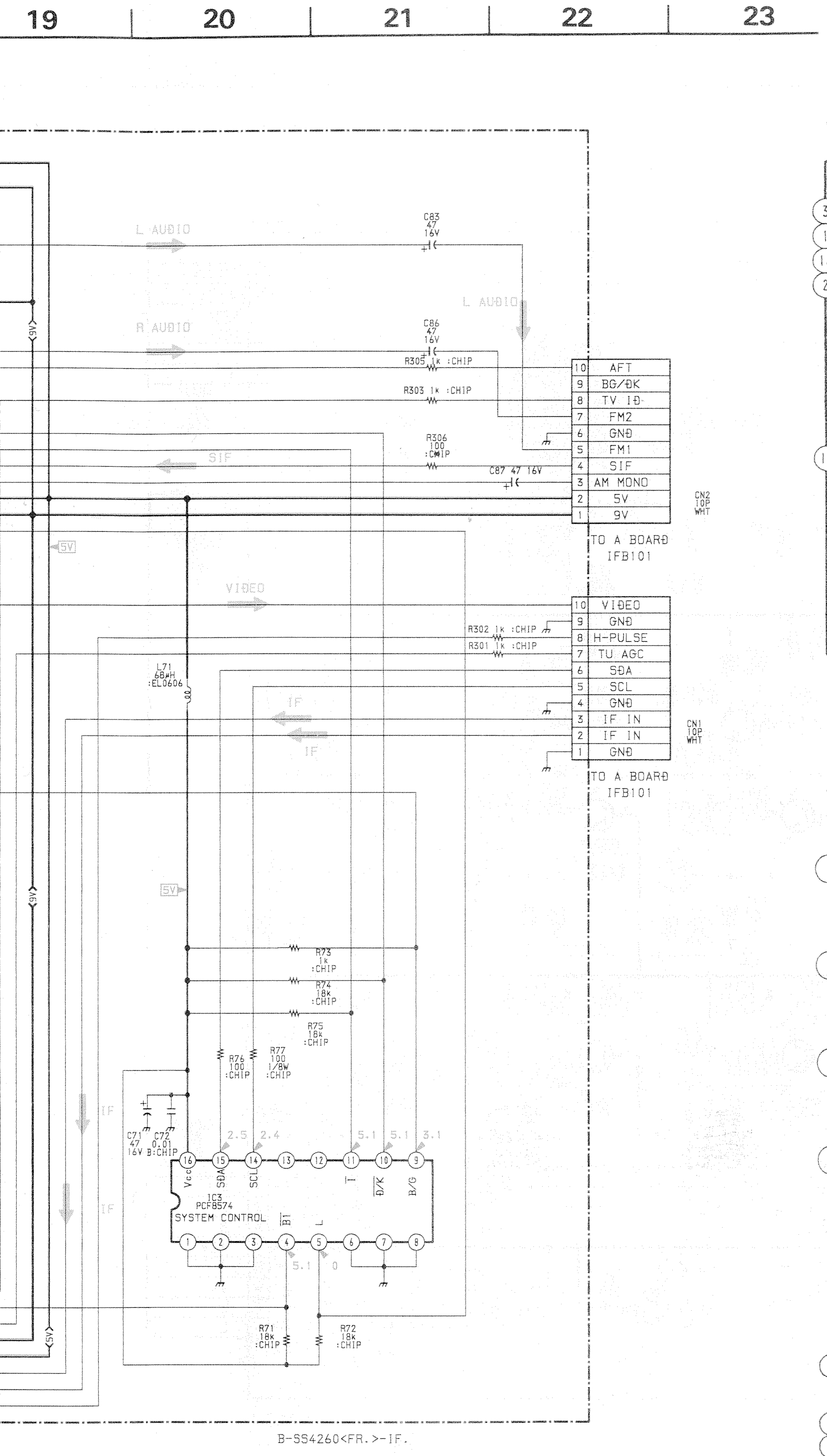

7-STAGE LIMITER-AMPLIFIER1
7-STAGE LIMITER-AMPLIFIER2
VCO1
VCO2
CONTROL UNIT
SUPPLY
MUTE
1
2
3
5
6
7
8
9
10
11
12
13
14
15
16

## • IF BOARD IC3 BA7046 (KV-B2511A/B2511D/B2513E/B2511K)


H. OSC
PHASE COMP
SYNC SEPA
V. SEPA
1
2
3
4
5
6
7
8

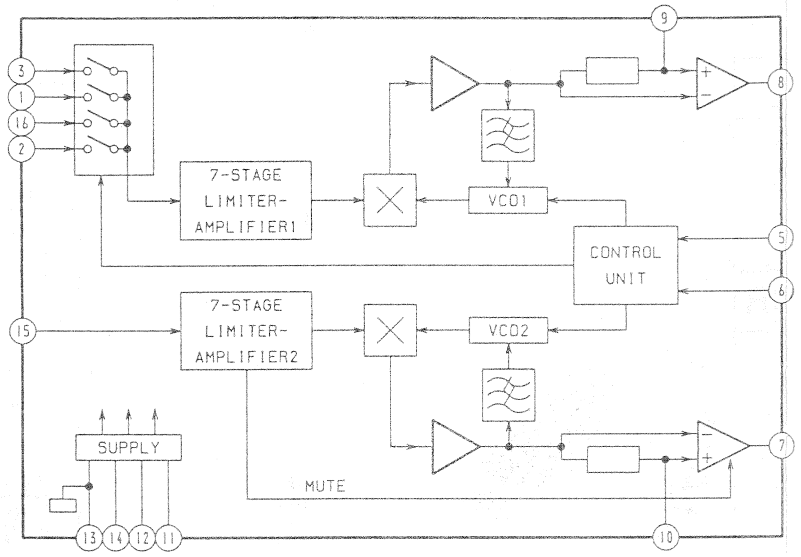
## • IF BOARD IC3 PCF8574 (KV-B2511B only)


INTERRUPT LOGIC
LP FILTER
INPUT FILTER
I2 C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
POWER-ON RESET
Write pulse
read pulse
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

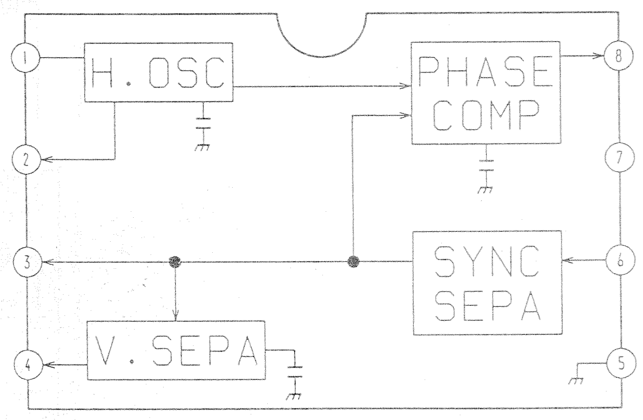

19
20
21
22
23
L AUDIO
R AUDIO
SIF
VIDEO
IF
5V
9V
C83 47 16V
C86 47 16V
R305 1k :CHIP
R303 1k :CHIP
R306 100 :CHIP
C87 47 16V
10 AFT
9 BG/DK
8 TV ID
7 FM2
6 GND
5 FM1
4 SIF
3 AM MONO
2 5V
1 9V
CN2 10P WHT
TO A BOARD IFB101
10 VIDEO
9 GND
8 H-PULSE
7 TU AGC
6 SDA
5 SCL
4 GND
3 IF IN
2 IF IN
1 GND
CN1 10P WHT
TO A BOARD IFB101
R302 1k :CHIP
R301 1k :CHIP
L71 68μH :EL0606
R73 1k :CHIP
R74 18k :CHIP
R75 18k :CHIP
R76 100 :CHIP
R77 100 1/8W :CHIP
C71 47 16V
C72 0.01 B:CHIP
2.5
2.4
5.1
5.1
3.1
Vcc
SDA
SCL
B/G
D/K
IC3 PCF8574 SYSTEM CONTROL
B1
L
5.1
0
R71 18k :CHIP
R72 18k :CHIP

B-SS4260<FR.>-IF.

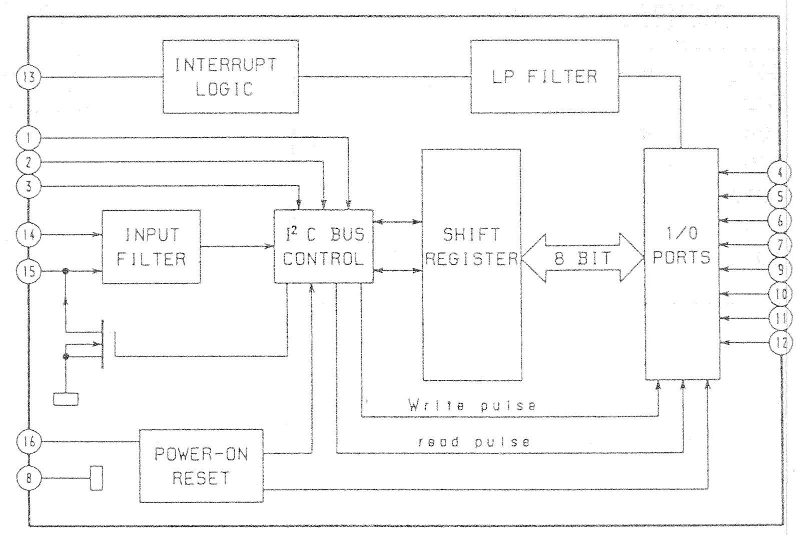
### • IF BOARD IC2 TDA9820 (KV-B2511A/B2511D/B2513E/B2511K)


7-STAGE LIMITER-AMPLIFIER1
7-STAGE LIMITER-AMPLIFIER2
VCO1
VCO2
CONTROL UNIT
SUPPLY
MUTE
1
2
3
5
6
7
8
9
10
11
12
13
14
15
16

### • IF BOARD IC3 BA7046 (KV-B2511A/B2511D/B2513E/B2511K)


H.OSC
PHASE COMP
SYNC SEPA
V.SEPA
1
2
3
4
5
6
7
8

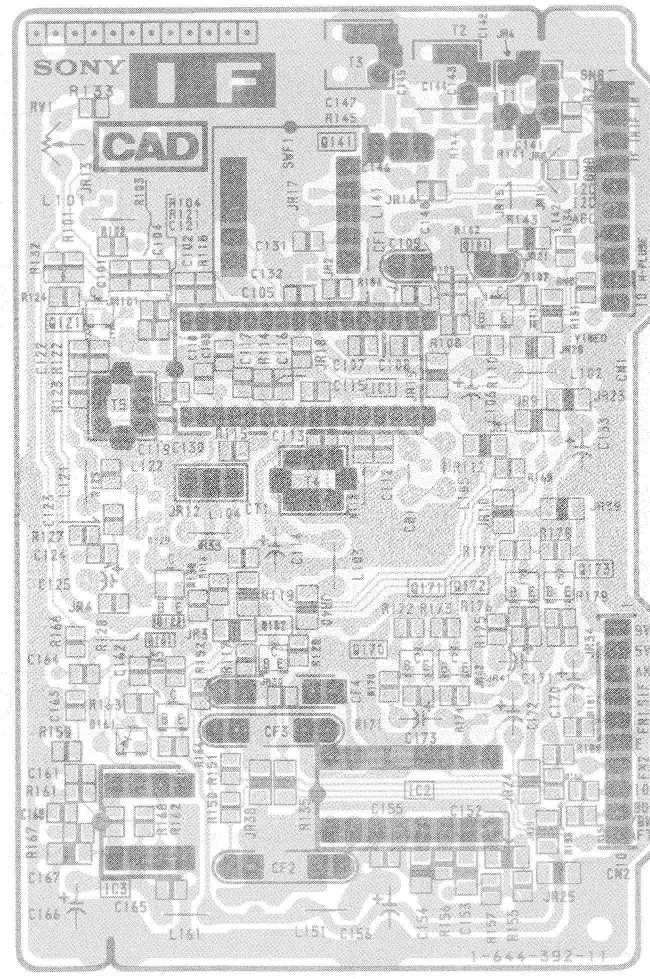
### • IF BOARD IC3 PCF8574 (KV-B2511B only)


INTERRUPT LOGIC
LP FILTER
INPUT FILTER
I² C BUS CONTROL
SHIFT REGISTER
8 BIT
I/O PORTS
Write pulse
read pulse
POWER-ON RESET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

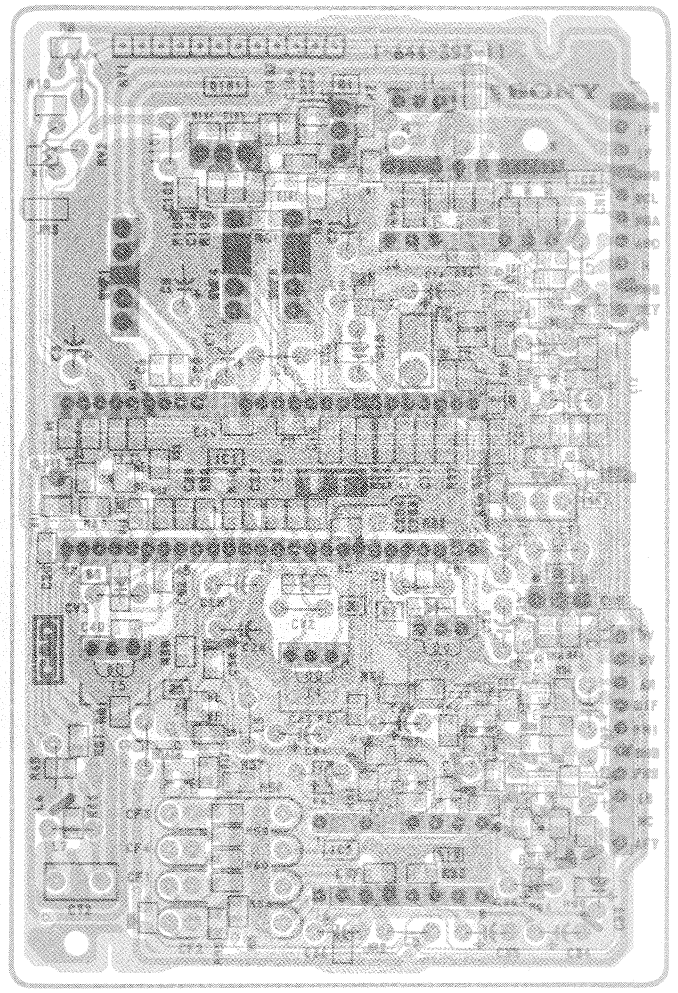
# I F

[VIF, SIF]

**– IF BOARD –** (KV-B2511A/B2511D/B2513E/B2511K)


SONY
I F
CAD
1-644-392-11

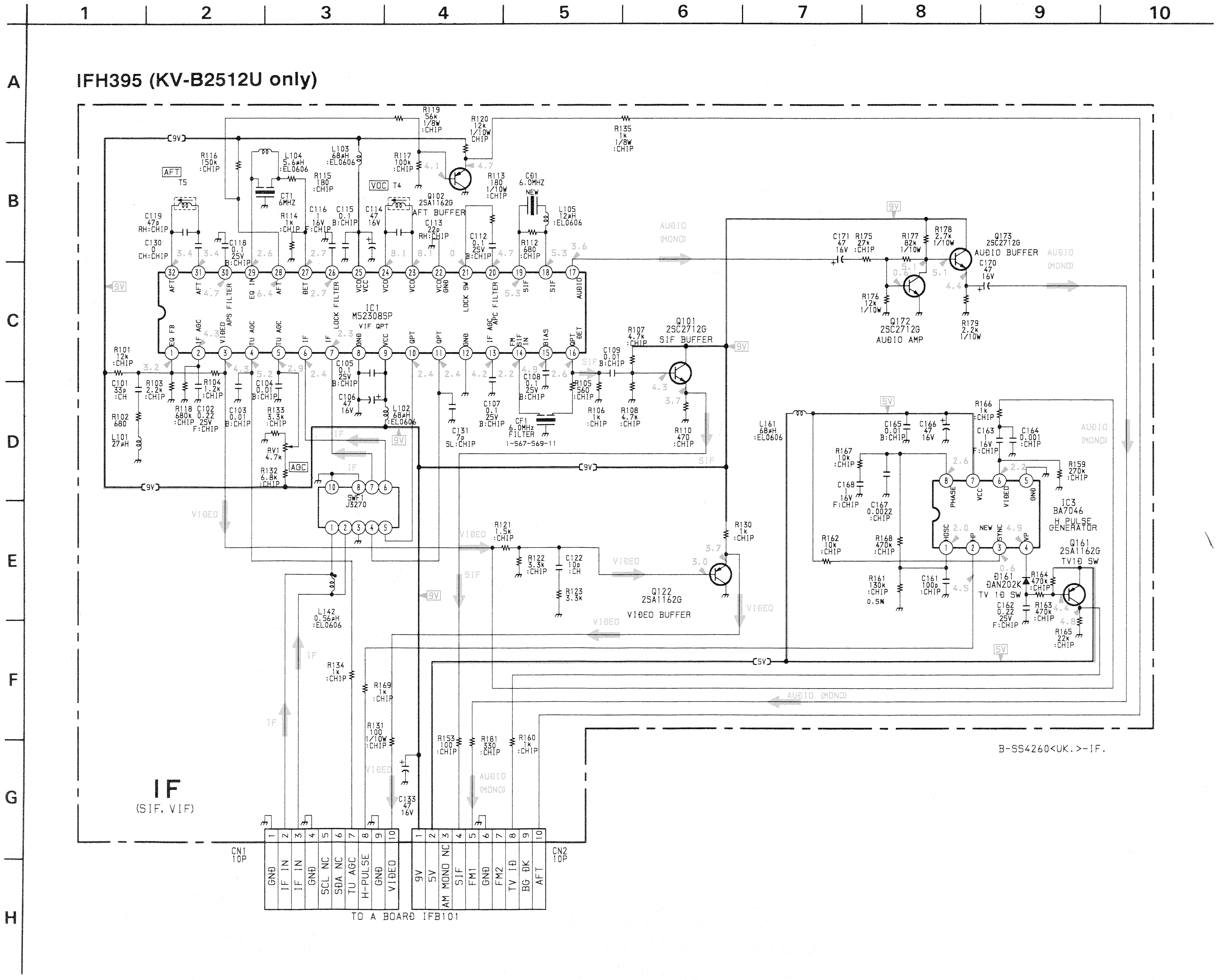
**– IF BOARD –** (KV-B2511B only)


SONY
1-644-393-11

Note :

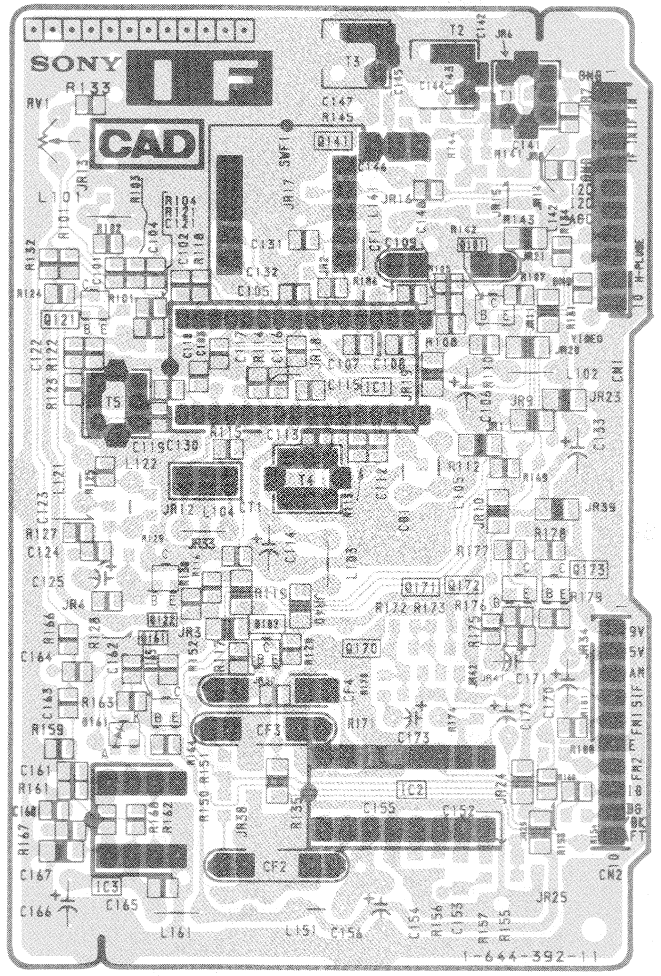
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

## IFH395 (KV-B2512U only)

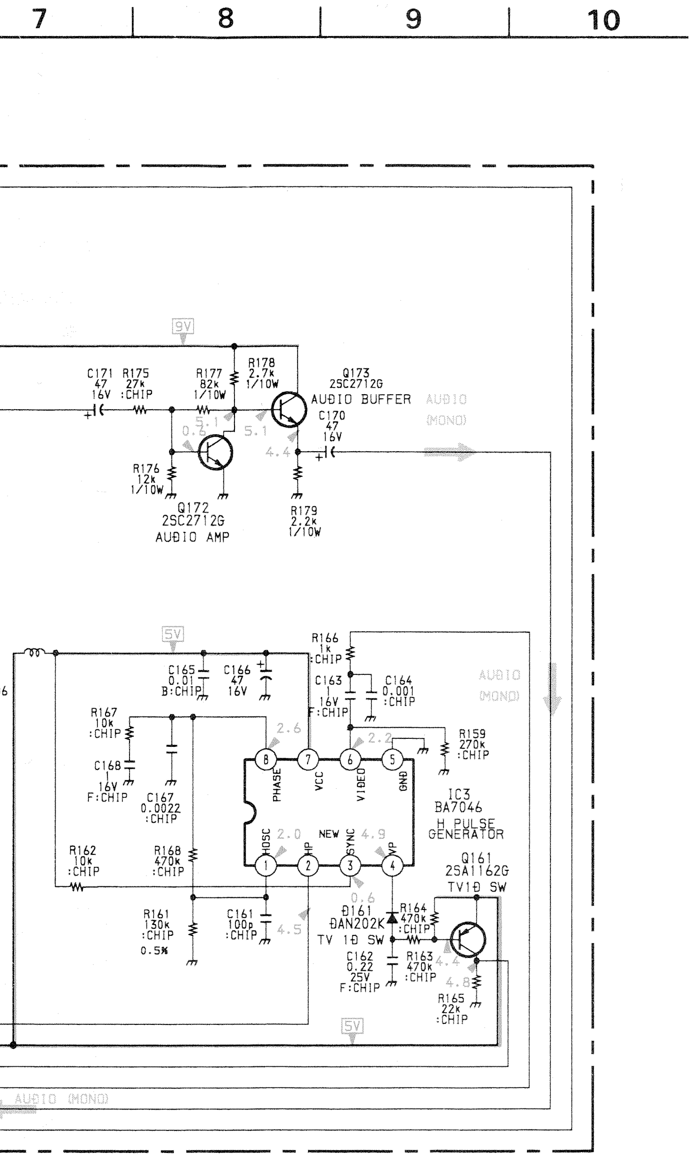

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
IC1 M52308SP VIF QPT
IC3 BA7046 H PULSE GENERATOR
Q101 2SC2712G SIF BUFFER
Q102 2SA1162G AFT BUFFER
Q122 2SA1162G VIDEO BUFFER
Q161 2SA1162G TV1D SW
Q172 2SC2712G AUDIO AMP
Q173 2SC2712G AUDIO BUFFER
D161 DAN202K TV 1D SW
SWF1 J3270
CF1 6.0MHz FILTER 1-567-569-11
CB1 6.0MHZ
CT1 6MHZ
T4
T5
AFT
VOC
AGC
RV1 4.7k
L101 27μH
L102 68μH :EL0606
L103 68μH :EL0606
L104 5.6μH :EL0606
L105 12μH :EL0606
L142 0.56μH :EL0606
L161 68μH :EL0606
AUDIO (MONO)
VIDEO
SIF
IF
9V
5V
IF (SIF, VIF)
B-SS4260<UK.>-IF.
CN1 10P
1 GND
2 IF IN
3 IF IN
4 GND
5 SCL NC
6 SDA NC
7 TU AGC
8 H-PULSE
9 GND
10 VIDEO
CN2 10P
1 9V
2 5V
3 AM MONO NC
4 SIF
5 FM1
6 GND
7 FM2
8 TV ID
9 BG DK
10 AFT
TO A BOARD IFB101

# I F [VIF, SIF]

– IF BOARD – (KV-B2512U only)


SONY
IF
CAD
1-644-392-11
CN1
CN2
IC1
IC2
IC3
T3
T4
T5
CF2
CF3

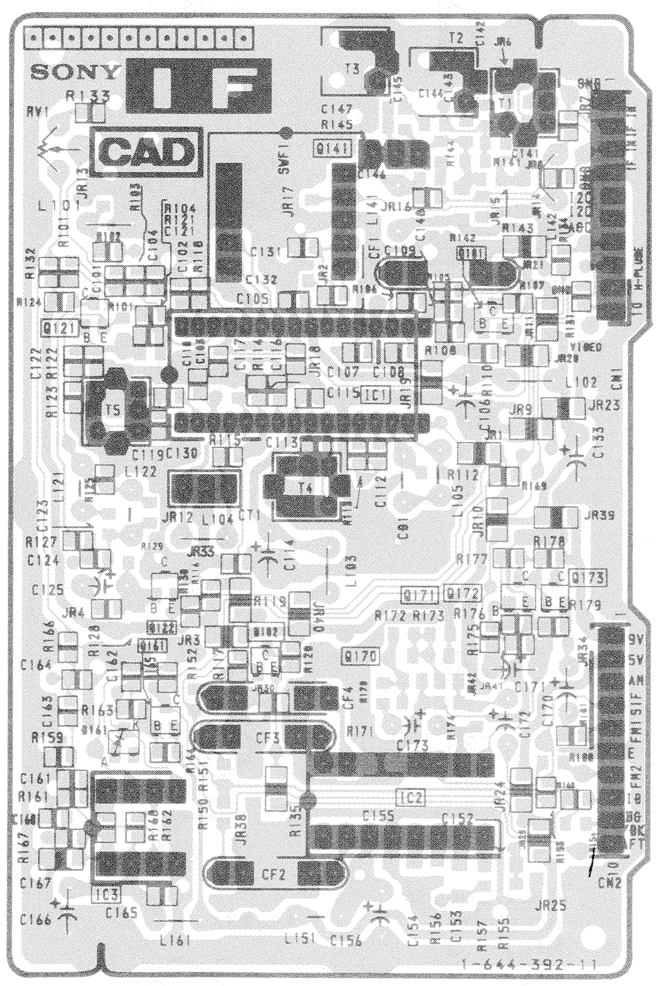
5-5. SCHEMATIC DIAGRAM OF TUNER
A BOARD TU101 UV916H


7
8
9
10
9V
Q173 2SC2712G AUDIO BUFFER
AUDIO (MONO)
Q172 2SC2712G AUDIO AMP
5V
IC3 BA7046 H PULSE GENERATOR
Q161 2SA1162G TV1Ø SW
D161 DAN202K
TV 1Ø SW
AUDIO (MONO)

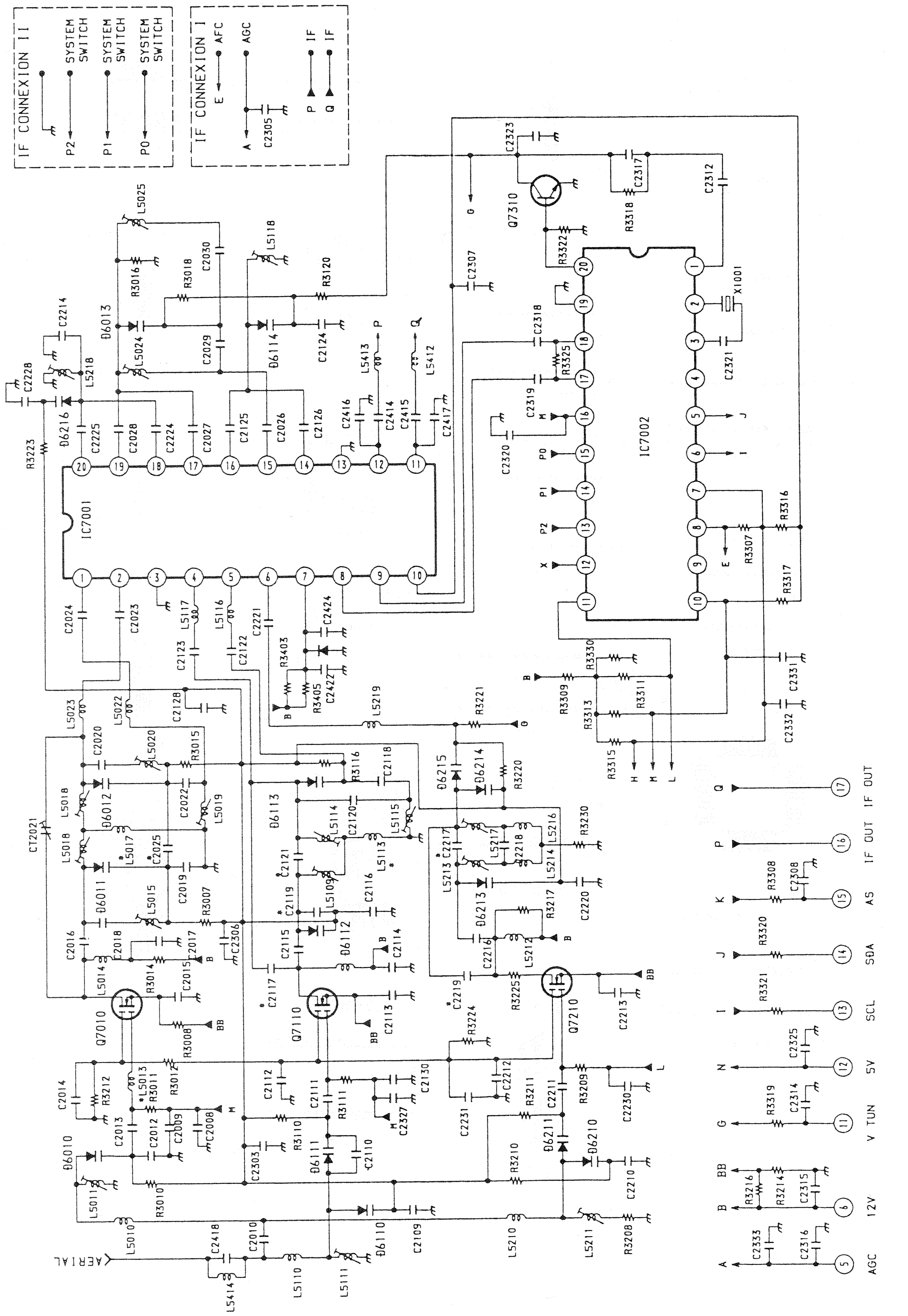
B-SS4260<UK.>-IF.

# I F [VIF, SIF]

## – IF BOARD – (KV-B2512U only)

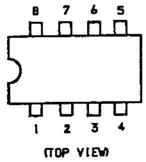

SONY
IF
CAD
1-644-392-11

## 5-5. SCHEMATIC DIAGRAM OF TUNER
A BOARD TU101 UV916H

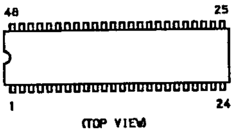

IF CONNEXION II
SYSTEM SWITCH
IF CONNEXION I
AFC
AGC
IF
IC7001
IC7002
Q7010
Q7110
Q7210
Q7310
X1001
AERIAL
AGC
12V
V TUN
5V
SCL
SDA
AS
IF OUT
IF OUT

## 5-6. SEMICONDUCTORS

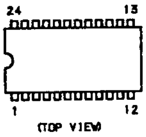
BA7046
LM358D
LM393P
TDA2822-M
TDA4605-3
TEA2114
X24C16P


8 7 6 5
1 2 3 4
(TOP VIEW)

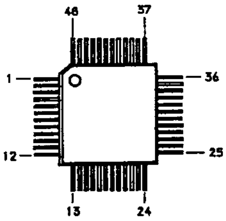
CXA1545AS
CXA1587S


48
25
1
24
(TOP VIEW)

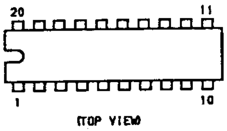
CXD1050A-15P
TDA9145/N1


24
13
1
12
(TOP VIEW)

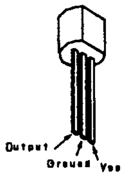
CXD2018Q


48
37
1
36
12
25
13
24

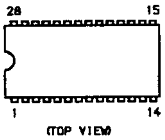
MCM514256AP80
TDA8732


20
11
1
10
(TOP VIEW)

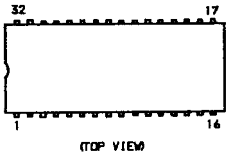
MC78L05ACPRP
MC78L12ACPRP


Output
Ground
Vcc

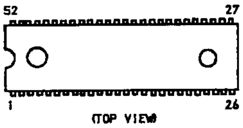
M27C512-20B1-AE27
SDA5231-2
TDA6612
TDA6622


28
15
1
14
(TOP VIEW)

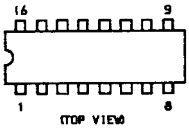
M52308SP


32
17
1
16
(TOP VIEW)

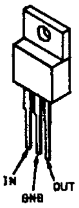
M52312SP


52
27
1
26
(TOP VIEW)

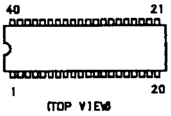
PCF8574
TDA9820


16
9
1
8
(TOP VIEW)

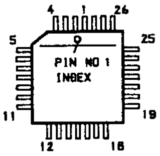
RC7809FA



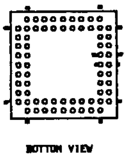
SAA7282P
SDA5248C1


40
21
1
20
(TOP VIEW)

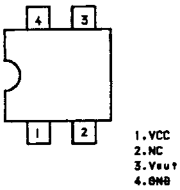
SBX1610-11


4
1
26
5
25
PIN NO 1
INDEX
11
19
12
18

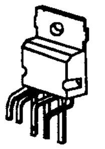
SDA30C162


BOTTOM VIEW

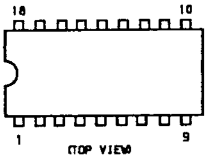
SFH617G-1


4
3
1
2
1.VCC
2.NC
3.Vout
4.GND

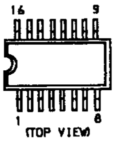
TDA2052
TDA8138A
TDA8179S



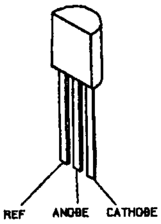
TDA2595/V9


18
10
1
9
(TOP VIEW)

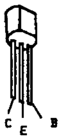
TDA4660V2


16
9
1
8
(TOP VIEW)

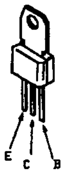
TL431CLP


REF
ANODE
CATHODE

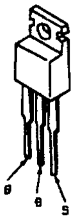
BF199-AMMO



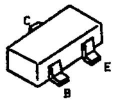
BF871



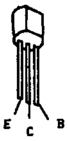
BUZ91A-E3155



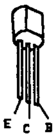
DA116-T146
DTA124EK
DTA144EK
DTA144TK
DTC114EK
DTC124EK
DTC144EK
2SA1162-G
2SC1623-L5L6
2SC2413KQ



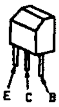
2SA1306A-Y
2SC3298B-Y



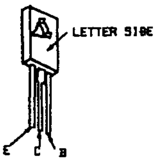
2SA733K
2SA1091-O
2SC2551-O



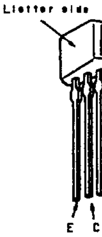
2SB734-34
2SD774-34



2SB772-Q
2SC2688-LK


LETTER SIDE
E
C
B

2SC2785

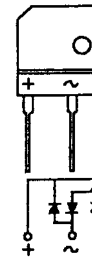

Letter side
E
C

2SC492

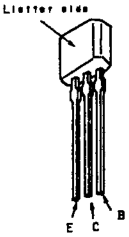
2SK191

D10SC6

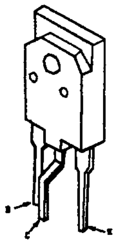
D4SB60



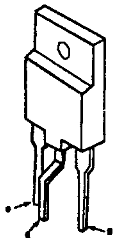
2SC2785-HFE


Lietter side
E
C
B

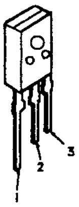
2SC4927-01



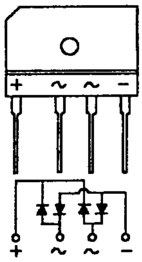
2SK1916-53-F50



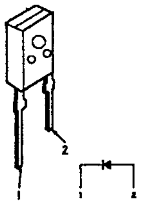
D10SC6M



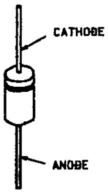
D4SB60L-F



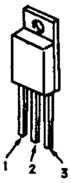
D5L60



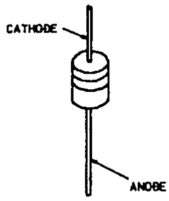
EGP20G
RGP02-17
RGP02-20EL-6394
RU-3AM
RU-30ALFS1
R2K


CATHODE
ANODE

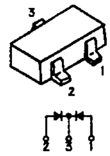
ESAB92-02
ESB85-009



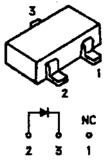
HZS3.6NB1TD
MTZJ-13C
MTZJ-3.3
MTZJ-9.1
MTZJ-30B
MTZJ-33C
MTZJ-39C
MTZJ-T-72-2.2A
RD12ES-B2
RD5.6ES-B1
RD5.6ES-B2
RD6.2ES-B2
RD7.5ES-B2
1SS119


CATHODE
ANODE

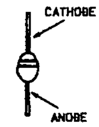
MA152WK



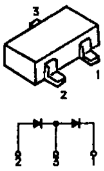
MA3039H-TX
MA3047L-TX
RD5.6M-B2



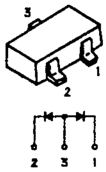
U05G


CATHODE
ANODE

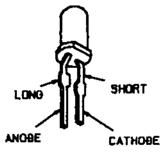
1SS226



1S2836



LD-201VR


LONG
SHORT
ANODE
CATHODE

# SECTION 6
# EXPLODED VIEWS

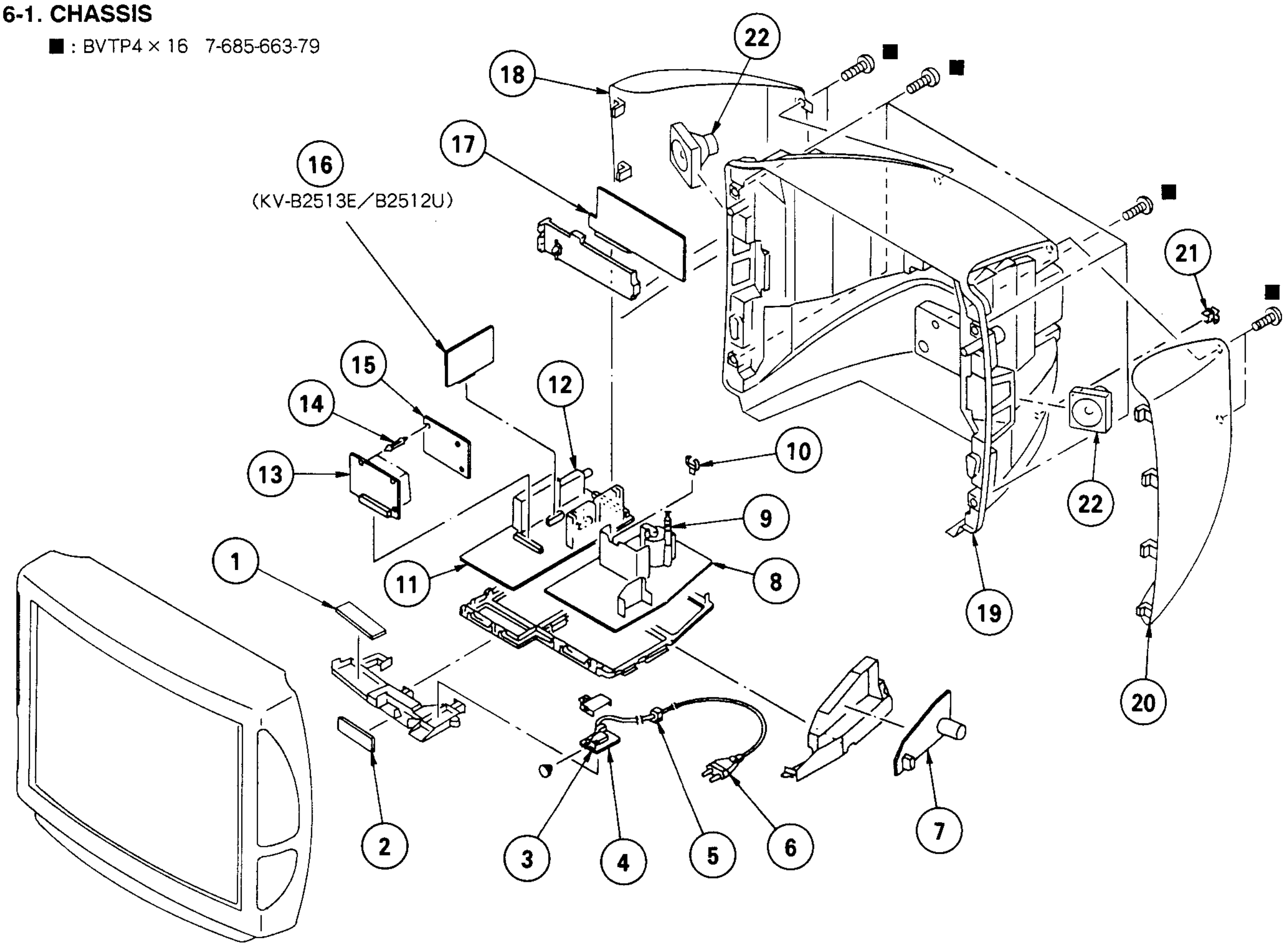
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

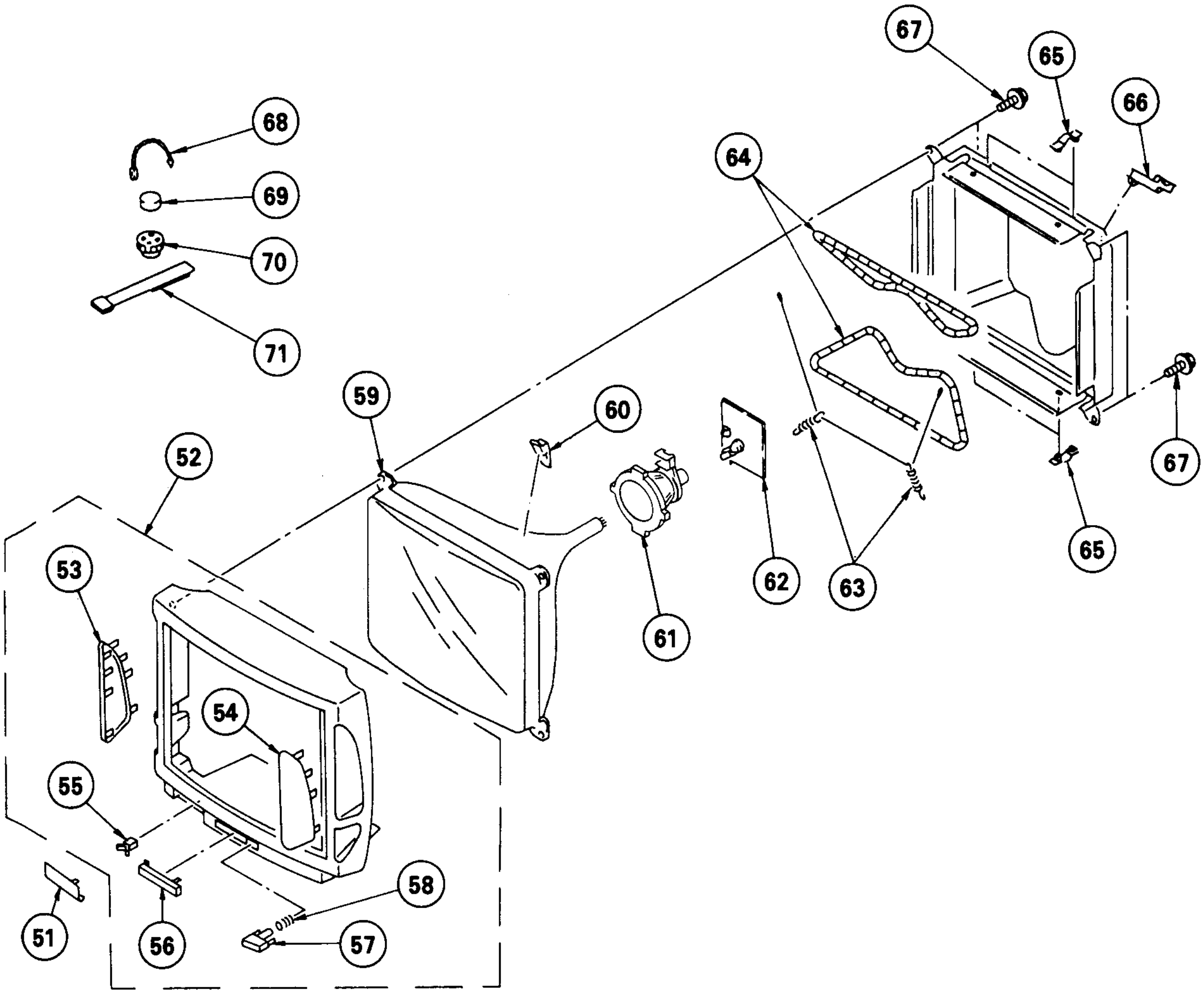
## 6-1. CHASSIS

■ : BVTP4 × 16 7-685-663-79



| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 1 | *1-643-004-11 | H1 BOARD | |
| 2 | *1-642-997-11 | H2 BOARD | |
| 3 | ⚠1-571-433-12 | SWITCH, PUSH (AC POWER) | |
| 4 | *A-1624-013-A | F1 BOARD, COMPLETE | |
| 5 | ⚠4-389-201-11 | HOLDER, AC CORD | |
| 6 | ⚠1-690-296-11 | CORD, POWER (WITH NOISE FILTER) (KV-B2511A,B2511B,B2511D,B2511K,B2513E) | |
| | ⚠1-590-762-11 | CORD, POWER (WITH PLUG) (KV-B2512U) | |
| 7 | *A-1624-014-A | F2 BOARD, COMPLETE | |
| 8 | *A-1642-089-A | D BOARD, COMPLETE | |
| 9 | ⚠1-453-118-11 | TRANSFORMER ASSY, FLYBACK (UX-2600A2) | |
| 10 | *3-646-071-00 | HOLDER, WIRE | |
| 11 | *A-1632-106-A | A BOARD, COMPLETE (KV-B2511A,B2511D,B2511K) | |
| | *A-1632-113-A | A BOARD, COMPLETE (KV-B2511B) | |
| | *A-1632-117-A | A BOARD, COMPLETE (KV-B2512U) | |
| | *A-1632-114-A | A BOARD, COMPLETE (KV-B2513E) | |
| 12 | 1-693-185-11 | TUNER (UV916H) (KV-B2511A,B2511B,B2511D,B2511K,B2513E) | |
| | 1-693-184-11 | TUNER (U944C) (KV-B2512U) | |
| 13 | *A-1635-001-A | M BOARD, COMPLETE | |
| 14 | *4-385-948-01 | HOLDER, PCB | |
| 15 | *A-1645-024-A | V BOARD, COMPLETE | |
| 16 | *A-1630-130-A | A1 BOARD, COMPLETE (KV-B2512U) | |
| | *A-1630-126-A | A1 BOARD, COMPLETE (KV-B2513E) | |
| 17 | *A-1651-040-A | J BOARD, COMPLETE | |
| 18 | 4-039-255-01 | COVER (LEFT), SPEAKER | |
| 19 | 4-039-259-01 | COVER, REAR | |
| 20 | 4-039-260-01 | COVER (RIGHT), SPEAKER | |
| 21 | ⚠4-038-615-11 | HOLDER, AC CORD | |
| 22 | 0-550-040-01 | SPEAKER | |

## 6-2. PICTURE TUBE



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 51 | 4-039-244-01 | DOOR (KV-B2511A,B2511B,B2511D,B2511K) | |
| | 4-039-244-11 | DOOR (KV-B2512U,B2513E) | |
| 52 | X-4030-924-1 | CABINET ASSY (WITH BEZEL ASSY) (KV-B2511A,B2511B,B2511D,B2511K,B2513E) | 53~58 |
| | X-4030-924-2 | CABINET ASSY (WITH BEZEL ASSY) (KV-B2512U) | 53~58 |
| 53 | 4-039-249-01 | GRILLE (LEFT), SPEAKER | |
| 54 | 4-039-250-01 | GRILLE (RIGHT), SPEAKER | |
| 55 | 4-392-036-01 | CATCHER, PUSH | |
| 56 | 4-039-253-01 | WINDOW, ORNAMENTAL | |
| 57 | 4-039-248-01 | BUTTON, POWER | |
| 58 | 4-329-112-00 | SPRING | |
| 59 | ⚠8-733-231-05 | PICTURE TUBE (A59JWC61X) | |
| 60 | 3-704-495-01 | SPACER, DY | |
| 61 | ⚠1-451-311-21 | DEFLECTION YOKE (Y25FXA) | |
| 62 | *A-1638-030-A | C BOARD, COMPLETE | |
| 63 | 4-303-774-11 | SPRING, GROUND WIRE | |
| 64 | ⚠1-402-746-21 | COIL, DEGAUSSING | |
| 65 | *4-385-916-01 | HOLDER (D) | |
| 66 | *4-387-284-01 | HOLDER, LEAD | |
| 67 | 4-373-263-11 | SCREW (M), PT | |
| 68 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 69 | 1-452-032-00 | MAGNET, DISK; 10MM ϕ | |
| 70 | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM ϕ | |
| 71 | X-4306-312-0 | PERMALLOY ASSY, CONVERGENCE | |

# SECTION 7
# ELECTRICAL PARTS LIST

**F1** **F2** **A1**

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | *A-1624-013-A | F1 BOARD, COMPLETE<br>****************** | | | | |
| | 1-533-230-11 | HOLDER, FUSE | | | | |
| | | <CONNECTOR> | | | | |
| CN0003 | ⚠1-580-844-11 | PIN, CONNECTOR (POWER) | | | | |
| CN0831 | ⚠1-695-292-11 | PIN, CONNECTOR (POWER) | | | | |
| | | <FUSE> | | | | |
| F651 | ⚠ 1-576-232-21 | FUSE (H.B.C.) 5A/250V | | | | |
| | | <SWITCH> | | | | |
| S651 | ⚠ 1-571-433-12 | SWITCH, PUSH (AC POWER) | | | | |

**************************************************************

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | *A-1624-014-A | F2 BOARD, COMPLETE<br>****************** | | | | |
| | | <CAPACITOR> | | | | |
| C661 | ⚠ 1-136-519-11 | FILM | 0.47MF | 20% | 300V | |
| C662 | ⚠ 1-136-518-11 | FILM | 0.33MF | 20% | 300V | |
| C664 | ⚠ 1-164-246-61 | CERAMIC | 0.0022MF | 20% | 400V | |
| C666 | 1-124-120-11 | ELECT | 220MF | 20% | 25V | |
| C667 | 1-124-916-11 | ELECT | 22MF | 20% | 50V | |
| C672 | ⚠ 1-161-964-91 | CERAMIC | 0.0047MF | | 250V | |
| C673 | ⚠ 1-161-964-91 | CERAMIC | 0.0047MF | | 250V | |
| C674 | 1-125-318-00 | ELECT(BLOCK) | 220MF | 20% | 400V | |
| | | <CONNECTOR> | | | | |
| CN0005 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P | | | | |
| CN0007 | *1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P | | | | |
| CN0924 | *1-568-878-51 | PIN, CONNECTOR 3P | | | | |
| CN0925 | *1-695-294-11 | PIN, CONNECTOR (PC BOARD) 6P | | | | |
| CN0929 | *1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P | | | | |
| CN0931 | ⚠1-691-291-11 | PIN, CONNECTOR (PC BOARD) 5P | | | | |
| | | <DIODE> | | | | |
| D661 | 8-719-911-19 | DIODE 1SS119 | | | | |
| D662 | 8-719-400-18 | DIODE MA152WK | | | | |
| D663 | 8-719-510-63 | DIODE D4SB60L-F | | | | |
| D664 | 8-719-921-69 | DIODE MTZJ-9.1 | | | | |
| | | <TRANSFORMER> | | | | |
| LF661 | ⚠ 1-424-391-11 | TRANSFORMER, LINE FILTER | | | | |
| LF662 | ⚠ 1-424-391-11 | TRANSFORMER, LINE FILTER | | | | |
| LF663 | ⚠ 1-421-862-11 | LFT | | | | |
| | | <TRANSISTOR> | | | | |
| Q661 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| | | <RESISTOR> | | | | |
| R663 | ⚠ 1-244-945-91 | CARBON | 1M | 5% | 1/2W | |
| R664 | ⚠ 1-205-949-11 | WIREWOUND | 1.8 | 5% | 10W | |
| R665 | ⚠ 1-218-265-91 | METAL GLAZE | 8.2M | 5% | 1W | |
| R666 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R667 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W | |
| R668 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W | |
| R669 | ⚠ 1-205-949-11 | WIREWOUND | 1.8 | 5% | 10W | |
| R671 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | F |
| | | <RELAY> | | | | |
| RY661 | ⚠ 1-515-720-31 | RELAY | | | | |
| | | <THERMISTOR> | | | | |
| THP661 | ⚠ 1-809-827-11 | THERMISTOR, POSITIVE | | | | |

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| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | *A-1630-130-A | A1 BOARD, COMPLETE (KV-B2512U)<br>****************** | | | | |
| | *A-1630-126-A | A1 BOARD, COMPLETE (KV-B2513E)<br>****************** | | | | |
| | | <FILTER> | | | | |
| BP1101 | 1-236-238-11 | FILTER, BAND PASS (KV-B2512U) | | | | |
| | 1-239-047-11 | FILTER, BAND PASS (KV-B2513E) | | | | |
| CF1101 | 1-409-333-00 | TRAP, CERAMIC (6.0MHZ) (KV-B2512U) | | | | |
| CF1102 | 1-404-134-00 | TRAP, CERAMIC (5.5MHZ) (KV-B2513E) | | | | |
| | | <CAPACITOR> | | | | |
| C1101 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | |
| C1102 | 1-126-101-11 | ELECT | 100MF | 20% | 16V | |
| C1103 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V | |
| C1104 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C1105 | 1-163-081-00 | CERAMIC CHIP | 0.22MF | | 25V | |
| C1106 | 1-163-187-00 | CERAMIC CHIP | 180PF | 5% | 50V | |
| C1107 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V | |
| C1108 | 1-163-059-00 | CERAMIC CHIP | 0.01MF | | 50V | |
| C1109 | 1-163-033-00 | CERAMIC CHIP | 0.022MF | | 50V | |
| C1110 | 1-164-336-11 | CERAMIC CHIP | 0.33MF | | 25V | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| C1111 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| C1112 | 1-164-161-11 | CERAMIC CHIP 0.0022MF 10% | 50V |
| C1113 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1114 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1115 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1116 | 1-106-228-00 | MYLAR 0.22MF 10% | 100V |
| C1117 | 1-163-081-00 | CERAMIC CHIP 0.22MF | 25V |
| C1118 | 1-163-113-00 | CERAMIC CHIP 68PF 5% | 50V |
| C1119 | 1-163-193-00 | CERAMIC CHIP 330PF 5% | 50V |
| C1120 | 1-163-193-00 | CERAMIC CHIP 330PF 5% | 50V |
| C1121 | 1-163-113-00 | CERAMIC CHIP 68PF 5% | 50V |
| C1122 | 1-163-081-00 | CERAMIC CHIP 0.22MF | 25V |
| C1123 | 1-106-228-00 | MYLAR 0.22MF 10% | 100V |
| C1124 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1125 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1126 | 1-163-077-00 | CERAMIC CHIP 0.1MF 10% | 25V |
| C1127 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1128 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1129 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1130 | 1-163-205-00 | CERAMIC CHIP 0.001MF 10% | 50V |
| C1131 | 1-163-059-00 | CERAMIC CHIP 0.01MF | 50V |
| C1132 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1133 | 1-124-907-11 | ELECT 10MF 20% | 50V |
| C1134 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| C1135 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1136 | 1-163-117-00 | CERAMIC CHIP 100PF 5% | 50V |
| C1137 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1138 | 1-163-105-00 | CERAMIC CHIP 33PF 5% | 50V |
| C1139 | 1-163-105-00 | CERAMIC CHIP 33PF 5% | 50V |
| C1140 | 1-163-181-00 | CERAMIC CHIP 100PF 5% | 50V |
| C1141 | 1-163-205-00 | CERAMIC CHIP 0.001MF 5% | 50V |
| C1142 | 1-163-019-00 | CERAMIC CHIP 0.0068MF | 50V |
| C1143 | 1-163-003-11 | CERAMIC CHIP 330PF 10% | 50V |
| C1144 | 1-163-121-00 | CERAMIC CHIP 150PF 5% | 50V |
| C1145 | 1-163-121-00 | CERAMIC CHIP 150PF 5% | 50V |
| C1146 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1147 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1148 | 1-164-161-11 | CERAMIC CHIP 0.0022MF 10% | 50V |
| C1149 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1150 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1151 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1152 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1153 | 1-163-087-00 | CERAMIC CHIP 4PF 0.25PF | 50V |
| C1154 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1155 | 1-124-477-11 | ELECT 47MF 20% | 16V |
| C1156 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| C1157 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| C1158 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C1159 | 1-163-243-11 | CERAMIC CHIP 47PF 5% | 50V<br>(KV-B2512U) |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN0201 | 1-695-300-11 | CONNECTOR, BOARD TO BOARD 20P | |

<DIODE>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D1101 | 8-719-104-34 | DIODE 1S2836 | |
| D1102 | 8-719-027-70 | DIODE 1SV217-TPH3 | |
| D1103 | 8-719-820-71 | DIODE 1SV214 | |

<FERRITE BEAD>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| FB1101 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| FB1102 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| FB1103 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| FB1104 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| FB1105 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| FB1107 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |

<IC>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| IC1101 | 8-759-511-88 | IC TDA8732 | |
| IC1102 | 8-759-073-17 | IC SAA7282P | |

<COIL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L1101 | 1-408-405-00 | INDUCTOR 4.7UH | |
| L1102 | 1-408-405-00 | INDUCTOR 4.7UH | |
| L1103 | 1-410-119-11 | INDUCTOR 1MMH | |
| L1104 | 1-410-119-11 | INDUCTOR 1MMH | |
| L1105 | 1-408-411-00 | INDUCTOR 15UH | (KV-B2512U) |

<TRANSISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q1101 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1102 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1103 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1104 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1105 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1106 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1107 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1108 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| JR1101 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | (KV-B2513E) |
| JR1102 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR1103 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR1104 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| R1101 | 1-216-188-00 | METAL GLAZE 390 5% 1/8W | |
| R1102 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R1103 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W | |
| R1104 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R1105 | 1-216-005-00 | METAL GLAZE 15 5% 1/10W | |
| R1106 | 1-216-036-00 | METAL GLAZE 300 5% 1/10W | |
| R1107 | 1-216-042-00 | METAL GLAZE 510 5% 1/10W | |
| R1108 | 1-216-063-00 | METAL GLAZE 3.9K 5% 1/10W | |
| R1109 | 1-216-202-00 | METAL GLAZE 1.5K 5% 1/8W | |
| R1110 | 1-216-196-00 | METAL GLAZE 820 5% 1/8W | |
| R1111 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R1112 | 1-216-051-00 | METAL GLAZE 1.2K 5% 1/10W | |
| R1113 | 1-216-001-00 | METAL GLAZE 10 5% 1/10W | |
| R1114 | 1-216-105-00 | METAL GLAZE 220K 5% 1/10W | |
| R1115 | 1-216-121-00 | METAL GLAZE 1M 5% 1/10W | |
| R1116 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W | |
| R1117 | 1-216-097-00 | METAL GLAZE 100K 5% 1/10W | |
| R1118 | 1-216-097-00 | METAL GLAZE 100K 5% 1/10W | |
| R1119 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R1120 | 1-216-232-00 | METAL GLAZE 27K 5% 1/8W | |
| R1121 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R1122 | 1-216-158-00 | METAL GLAZE 22 5% 1/8W | |
| R1123 | 1-216-158-00 | METAL GLAZE 22 5% 1/8W | |
| R1124 | 1-216-089-00 | METAL GLAZE 47K 5% 1/10W | |
| R1125 | 1-216-097-00 | METAL GLAZE 100K 5% 1/10W | |
| R1126 | 1-216-218-00 | METAL GLAZE 6.8K 5% 1/8W | |
| R1127 | 1-216-097-00 | METAL GLAZE 100K 5% 1/10W | |

**A1** **A**

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1128 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1129 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1130 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W | |
| R1131 | 1-216-218-00 | METAL GLAZE | 6.8K | 5% | 1/8W | |
| R1132 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1133 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1134 | 1-216-212-00 | METAL GLAZE | 3.9K | 5% | 1/8W | |
| R1135 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1136 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1137 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R1138 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1139 | 1-216-005-00 | METAL GLAZE | 15 | 5% | 1/10W | |
| R1140 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R1141 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R1142 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1143 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1144 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1145 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R1146 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1147 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1148 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1149 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R1150 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1151 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1152 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1153 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1154 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |

<CRYSTAL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| X1101 | 1-579-689-21 | VIBRATOR, CRYSTAL | |
| X1102 | 1-579-283-11 | VIBRATOR, CRYSTAL | (KV-B2512U) |
| | 1-579-282-21 | VIBRATOR, CRYSTAL | (KV-B2513E) |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | *A-1632-106-A | A BOARD, COMPLETE<br>***************** | (KV-B2511A,B2511D,B2511K) |
| | *A-1632-113-A | A BOARD, COMPLETE<br>***************** | (KV-B2511B) |
| | *A-1632-117-A | A BOARD, COMPLETE<br>***************** | (KV-B2512U) |
| | *A-1632-114-A | A BOARD, COMPLETE<br>***************** | (KV-B2513E) |
| | 4-200-001-11 | HOLDER, IC | |
| | 4-201-023-11 | SPACER, INSULATING | |

<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C071 | 1-124-126-00 | ELECT | 47MF | 20% | 10V | |
| C072 | 1-124-120-11 | ELECT | 220MF | 20% | 16V | |
| C074 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V | |
| C102 | 1-126-103-11 | ELECT | 470MF | 20% | 16V | |
| C103 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V | |
| C104 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | |
| C105 | 1-124-916-11 | ELECT | 22MF | 20% | 50V | |
| C106 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | (KV-B2511A,B2511D,B2511K,B2512U,B2513E) |
| | 1-124-907-11 | ELECT | 10MF | 20% | 50V | (KV-B2511B) |
| C110 | 1-124-478-11 | ELECT | 100MF | 20% | 25V | |
| C111 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V | (KV-B2511B) |
| C120 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V | |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C201 | 1-130-489-00 | FILM | 0.033MF | 5% | 50V |
| C202 | 1-130-489-00 | FILM | 0.033MF | 5% | 50V |
| C203 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C204 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C205 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C206 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C207 | 1-137-613-11 | FILM | 0.0018MF | 2% | 100V |
| C208 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C209 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C210 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C213 | 1-163-023-00 | CERAMIC CHIP | 0.015MF | 10% | 50V |
| C214 | 1-163-023-00 | CERAMIC CHIP | 0.015MF | 10% | 50V |
| C215 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C216 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C217 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C218 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C219 | 1-163-011-11 | CERAMIC CHIP | 0.0015MF | 10% | 50V |
| C220 | 1-163-011-11 | CERAMIC CHIP | 0.0015MF | 10% | 50V |
| C221 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C222 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C223 | 1-136-177-00 | FILM | 1MF | 5% | 50V |
| C224 | 1-136-177-00 | FILM | 1MF | 5% | 50V |
| C225 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C226 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C227 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C228 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C229 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C230 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C231 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C232 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C233 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C234 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C235 | 1-130-772-00 | FILM | 0.22MF | 5% | 63V |
| C236 | 1-124-618-11 | ELECT | 2200MF | 20% | 35V |
| C237 | 1-124-618-11 | ELECT | 2200MF | 20% | 35V |
| C238 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C239 | 1-130-772-00 | FILM | 0.22MF | 5% | 63V |
| C240 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C241 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C242 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C244 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C248 | 1-163-185-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C249 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C251 | 1-126-320-11 | ELECT | 10MF | 20% | 16V |
| C301 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C302 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C303 | 1-164-337-11 | CERAMIC CHIP | 2.2MF | | 16V |
| C304 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C305 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C306 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C307 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C308 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C309 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C310 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C311 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C312 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C313 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | | 50V |
| C314 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C315 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C316 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | | 50V |
| C317 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C318 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C319 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C320 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C321 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C322 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C323 | 1-163-135-00 | CERAMIC CHIP | 560PF | 5% | 50V |
| C324 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C325 | 1-163-111-00 | CERAMIC CHIP | 56PF | 5% | 50V |
| C326 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V |
| C341 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C342 | 1-163-077-00 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C343 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C344 | 1-162-638-11 | CERAMIC CHIP | 1MF | | 16V |
| C345 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C347 | 1-162-638-11 | CERAMIC CHIP | 1MF | | 16V |
| C348 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C349 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C350 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C351 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C353 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C354 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C355 | 1-162-638-11 | CERAMIC CHIP | 1MF | | 16V |
| C356 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C357 | 1-164-299-11 | CERAMIC CHIP | 0.22MF | 10% | 25V |
| C358 | 1-164-299-11 | CERAMIC CHIP | 0.22MF | 10% | 25V |
| C359 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C361 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V |
| C362 | 1-130-772-00 | FILM | 0.22MF | 5% | 63V |
| C363 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C365 | 1-124-120-11 | ELECT | 220MF | 20% | 16V |
| C366 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C401 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 16V |
| C402 | 1-124-917-11 | ELECT | 33MF | 20% | 50V |
| C403 | 1-162-637-11 | CERAMIC CHIP | 0.47MF | | 16V |
| C411 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C412 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C421 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C422 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C423 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C424 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C425 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C426 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C427 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C428 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C429 | 1-124-119-00 | ELECT | 330MF | 20% | 16V |
| C574 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C581 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C582 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C583 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V |
| C586 | 1-163-063-00 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C587 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C588 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C589 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C590 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C591 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C592 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C593 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C595 | 1-163-109-00 | CERAMIC CHIP | 47PF | 5% | 50V |
| C599 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C681 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C682 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C683 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C684 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |
| C685 | 1-124-478-11 | ELECT | 100MF | 20% | 25V |

<FILTER>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CF581 | 1-577-611-11 | OSCILALTOR, CERAMIC | |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN0001* | 1-568-880-51 | PIN, CONNECTOR 5P | |
| CN0101 | 1-695-297-11 | CONNECTOR, BOARD TO BOARD 20P | (KV-B2512U,B2513E) |
| CN0103* | 1-564-511-71 | PLUG, CONNECTOR 8P | |
| CN0104* | 1-568-882-51 | PIN, CONNECTOR 7P | |
| CN0105* | 1-568-880-51 | PIN, CONNECTOR 5P | |
| CN0107* | 1-568-879-51 | PIN, CONNECTOR 4P | |
| CN0108* | 1-568-878-51 | PIN, CONNECTOR 3P | |
| CN0109 | 1-695-299-11 | CONNECTOR, BOARD TO BOARD 50P | |
| CN0110* | 1-568-882-51 | PIN, CONNECTOR 7P | |
| CN0113 | 1-695-298-11 | CONNECTOR, BOARD TO BOARD 40P | |
| CN0137* | 1-564-511-51 | PLUG, CONNECTOR 8P | |
| CN5108* | 1-564-513-11 | PLUG, CONNECTOR 10P | |

<DIODE>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D068 | 8-719-104-34 | DIODE 1S2836 | |
| D069 | 8-719-104-34 | DIODE 1S2836 | |
| D071 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D073 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D075 | 8-719-400-18 | DIODE MA152WK | |
| D077 | 8-719-400-18 | DIODE MA152WK | |
| D078 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D079 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D101 | 8-719-982-27 | DIODE MTZJ-33C | |
| D206 | 8-719-400-18 | DIODE MA152WK | |
| D207 | 8-719-921-89 | DIODE MTZJ-13C | |
| D208 | 8-719-911-19 | DIODE 1SS119 | |
| D209 | 8-719-911-19 | DIODE 1SS119 | |
| D210 | 8-719-911-19 | DIODE 1SS119 | |
| D211 | 8-719-911-19 | DIODE 1SS119 | |
| D212 | 8-719-911-19 | DIODE 1SS119 | |
| D213 | 8-719-400-18 | DIODE MA152WK | |
| D301 | 8-719-400-18 | DIODE MA152WK | |
| D302 | 8-719-104-34 | DIODE 1S2836 | |
| D304 | 8-719-109-89 | DIODE RD5.6ES-B2 | |
| D306 | 8-719-400-18 | DIODE MA152WK | |
| D307 | 8-719-400-18 | DIODE MA152WK | |
| D308 | 8-719-800-76 | DIODE 1SS226 | |
| D381 | 8-719-110-03 | DIODE RD7.5ES-B2 | |
| D401 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D403 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D405 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D406 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D407 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D571 | 8-719-800-76 | DIODE 1SS226 | |
| D682 | 8-719-109-89 | DIODE RD5.6ES-B2 | |

<IC>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| IC072 | 8-759-073-14 | IC X24C16P | |
| IC201 | 8-759-073-30 | IC TDA6612 | (KV-B2511A,B2511B,B2511D,B2511K,B2513E) |
| | 8-759-073-31 | IC TDA6622 (KV-B2512U) | |
| IC202 | 8-759-502-21 | IC TDA2822M | |
| IC251 | 8-759-072-99 | IC TDA2052 | |
| IC261 | 8-759-072-99 | IC TDA2052 | |
| IC301 | 8-759-073-15 | IC TDA9145/N1 | |
| IC302 | 8-759-084-91 | IC TDA4661/V2 | |

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

**A**

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| IC304 | 8-752-056-54 | IC CXA1587S | |
| IC401 | 8-752-062-86 | IC CXA1545AS | |
| IC402 | 8-759-073-00 | IC TEA2114 | |
| IC681 | 8-759-072-98 | IC TDA8138A | |
| IC683 | 8-759-982-10 | IC RC7809FA | |
| IC684 | 8-759-982-10 | IC RC7809FA | |

<IF BLOCK>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| IFB101 | 1-466-733-11 | IF BLOCK (IFH-389) (KV-B2511A,B2511D,B2511K,B2513E) | |
| | 1-466-735-11 | IF BLOCK (IFH-389F) (KV-B2511B) | |
| | 1-466-734-11 | IF BLOCK (IFH-395) (KV-B2512U) | |

<COIL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L101 | 1-412-546-41 | INDUCTOR 560UH | |
| L102 | 1-408-413-00 | INDUCTOR 22UH | |
| L201 | 1-407-500-00 | INDUCTOR 4.7MMH | |
| L307 | 1-408-405-00 | INDUCTOR 4.7UH | |
| L308 | 1-408-417-00 | INDUCTOR 47UH | |
| L309 | 1-408-409-00 | INDUCTOR 10UH | |
| L310 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| L572 | 1-410-119-11 | INDUCTOR 1MMH | |
| L610 | 1-412-539-41 | INDUCTOR 150UH | |
| L611 | 1-412-539-41 | INDUCTOR 150UH | |

<IC LINK>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| PS681⚠ | 1-532-605-91 | LINK, IC 0.4A | |

<TRANSISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q071 | 8-729-901-05 | TRANSISTOR DTA124EK | |
| Q101 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q102 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| Q103 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q201 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q202 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q203 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q204 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q205 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q206 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q207 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q209 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q210 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q303 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q304 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q306 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q311 | 8-729-901-06 | TRANSISTOR DTA144EK | |
| Q312 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q313 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q401 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q402 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q403 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q581 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q582 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q610 | 8-729-140-97 | TRANSISTOR 2SB734-34 | |
| Q611 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q683 | 8-729-140-96 | TRANSISTOR 2SD774-34 | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| JR101 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR102 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR104 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR105 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR107 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR110 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR111 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR112 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR113 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR114 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR115 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR116 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR117 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR118 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR119 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR120 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR121 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR122 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR123 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR125 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR127 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR129 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR131 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR132 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR133 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR134 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR136 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR137 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR138 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR140 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR141 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR142 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR143 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR144 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR150 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR152 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR201A | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR202 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR203 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR204 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR205 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR206 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR207 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR208 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR209 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR210 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR211 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR212 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR213 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR214 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR215 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR216 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR217 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR218 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR219 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR220 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR221 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR222 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR223 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR225 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR226 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR227 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR228 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR229 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR230 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| JR231 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR232 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR233 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR234 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR235 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR236 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR237 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR238 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR239 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR240 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR241 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR242 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR243 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR245 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR247 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR248 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR250 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR251 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR252 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR253 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR254 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR255 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR256 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR257 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR258 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR270 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR272 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R071 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R072 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R073 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R074 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W | |
| R076 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R077 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R101 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R102 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R103 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R105 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R108 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W | |
| R115 | 1-216-210-00 | METAL GLAZE | 3.3K | 5% | 1/8W | |
| R201 | 1-216-653-11 | METAL CHIP | 1.2K | 0.50% | 1/10W | |
| R202 | 1-216-653-11 | METAL CHIP | 1.2K | 0.50% | 1/10W | |
| R203 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R204 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R205 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R206 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R207 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R208 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R209 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R210 | 1-247-734-11 | CARBON | 39 | 5% | 1/2W | |
| R211 | 1-247-734-11 | CARBON | 39 | 5% | 1/2W | |
| R212 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R213 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R214 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R215 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R216 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R217 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R218 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R221 | 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W | F |
| R222 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R223 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R224 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R225 | 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W | F |
| R226 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | |
| R227 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R228 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R229 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R230 | 1-216-246-00 | METAL GLAZE | 100K | 5% | 1/8W | |
| R231 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R232 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R233 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R234 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R235 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R236 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R237 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R238 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R239 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R241 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R242 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | |
| R244 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R245 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R246 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R247 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R248 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R249 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R250 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R251 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R252 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R253 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R254 | 1-216-252-00 | METAL GLAZE | 180K | 5% | 1/8W | |
| R255 | 1-216-252-00 | METAL GLAZE | 180K | 5% | 1/8W | |
| R256 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R257 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R258 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R259 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R260 | 1-216-212-00 | METAL GLAZE | 3.9K | 5% | 1/8W | |
| R301 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R302 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R303 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | |
| R304 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | |
| R305 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R306 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R307 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R308 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W | |
| R309 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R310 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R311 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R312 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R314 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R315 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R316 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R318 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R319 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R322 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R331 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R333 | 1-216-182-00 | METAL GLAZE | 220 | 5% | 1/8W | |
| R334 | 1-216-182-00 | METAL GLAZE | 220 | 5% | 1/8W | |
| R336 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W | |
| R337 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R338 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R339 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R340 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R341 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R342 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R343 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R344 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R345 | 1-216-171-00 | METAL GLAZE | 75 | 5% | 1/8W | |
| R346 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |

## A IF (KV-B2511A/B2511D B2511K/B2513E)

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R347 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R351 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R352 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R354 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R355 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R356 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R357 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R358 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R359 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R360 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R361 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R362 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R367 | 1-216-212-00 | METAL GLAZE | 3.9K | 5% | 1/8W | |
| R373 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R376 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R377 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R378 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R379 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W | |
| R380 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R381 | 1-216-164-00 | METAL GLAZE | 39 | 5% | 1/8W | |
| R382 | 1-216-164-00 | METAL GLAZE | 39 | 5% | 1/8W | |
| R383 | 1-216-164-00 | METAL GLAZE | 39 | 5% | 1/8W | |
| R401 | 1-216-171-00 | METAL GLAZE | 75 | 5% | 1/8W | |
| R402 | 1-216-158-00 | METAL GLAZE | 22 | 5% | 1/8W | |
| R403 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R404 | 1-216-158-00 | METAL GLAZE | 22 | 5% | 1/8W | |
| R405 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R406 | 1-216-158-00 | METAL GLAZE | 22 | 5% | 1/8W | |
| R407 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R408 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R410 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R411 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R412 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R413 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R414 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R416 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R417 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R419 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R420 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R424 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R425 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R428 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R574 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R575 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R581 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R582 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R583 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R584 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R586 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R587 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R588 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R589 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R590 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R591 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R592 | 1-216-232-00 | METAL GLAZE | 27K | 5% | 1/8W | |
| R593 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R594 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R595 | 1-216-643-11 | METAL CHIP | 470 | 0.50% | 1/10W | |
| R596 | 1-216-670-11 | METAL CHIP | 6.2K | 0.50% | 1/10W | |
| R597 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W | |
| R600 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W | |
| R616 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R628 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R681 | 1-216-397-11 | METAL OXIDE | 4.7 | 5% | 3W | F |
| R684 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R685 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |

<TUNER>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| TU101 | 1-693-185-11 | TUNER (UV916H)<br>(KV-B2511A,B2511B,B2511D,B2511K,B2513E) | |
| | 1-693-184-11 | TUNER (U944C) (KV-B2512U) | |

<CRYSTAL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| X301 | 1-567-504-11 | OSCILLATOR, CRYSTAL | |
| X302 | 1-567-505-11 | OSCILLATOR, CRYSTAL | |

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1-466-733-11 IF BLOCK (IFH-389)
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(KV-B2511A,B2511D,B2511K,B2513E)

<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C101 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V | |
| C102 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V | |
| C103 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C104 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C105 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C106 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C107 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C108 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C109 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C112 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C113 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C114 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C115 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C116 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V | |
| C118 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C119 | 1-163-369-11 | CERAMIC CHIP | 47PF | 5% | 50V | |
| C121 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C122 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V | |
| C123 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V | |
| C124 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V | |
| C130 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| C131 | 1-163-093-00 | CERAMIC CHIP | 10PF | 5% | 50V | |
| C133 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C152 | 1-164-337-11 | CERAMIC CHIP | 2.2MF | | 16V | |
| C153 | 1-164-337-11 | CERAMIC CHIP | 2.2MF | | 16V | |
| C154 | 1-164-337-11 | CERAMIC CHIP | 2.2MF | | 16V | |
| C155 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C156 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C161 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C162 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V | |
| C163 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V | |
| C164 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | |
| C165 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C166 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C167 | 1-163-213-00 | CERAMIC CHIP | 0.0022MF | 5% | 50V | |
| C168 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V | |
| C170 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C171 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C172 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |
| C173 | 1-124-477-11 | ELECT | 47MF | 20% | 16V | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | <FILTER> | |
| CF2 | 1-527-839-00 | FILTER, CERAMIC | |
| CF3 | 1-527-840-00 | FILTER, CERAMIC | |
| CF4 | 1-567-570-11 | FILTER, CERAMIC | |
| SWF1 | 1-579-658-11 | FILTER, SAWTOOTH WAVE | |
| | | <CONNECTOR> | |
| CN1 | 1-750-173-11 | PIN, CONNECTOR (PC BOARD) 10P | |
| CN2 | 1-750-173-11 | PIN, CONNECTOR (PC BOARD) 10P | |
| | | <TRIMMER> | |
| CT1 | 1-404-801-11 | TRAP, CERAMIC | |
| | | <DIODE> | |
| D161 | 8-719-400-18 | DIODE MA152WK | |
| | | <IC> | |
| IC1 | 8-759-070-76 | IC M52308SP | |
| IC2 | 8-759-070-71 | IC TDA9820 | |
| IC3 | 8-759-514-54 | IC BA7046 | |
| | | <COIL> | |
| L101 | 1-408-421-00 | INDUCTOR 100UH | |
| L102 | 1-408-419-00 | INDUCTOR 68UH | |
| L103 | 1-408-419-00 | INDUCTOR 68UH | |
| L104 | 1-408-408-00 | INDUCTOR 8.2UH | |
| L121 | 1-408-413-00 | INDUCTOR 22UH | |
| L122 | 1-408-420-00 | INDUCTOR 82UH | |
| L142 | 1-410-790-41 | INDUCTOR 0.56UH | |
| L151 | 1-408-419-00 | INDUCTOR 68UH | |
| L161 | 1-408-419-00 | INDUCTOR 68UH | |
| | | <TRANSISTOR> | |
| Q101 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q102 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q121 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q122 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q161 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q170 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q171 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q172 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q173 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| | | <RESISTOR> | |
| JR2 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR3 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR4 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR7 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR8 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR9 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR11 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR14 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR16 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR18 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR19 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR20 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR21 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR23 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR24 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR25 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR29 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR30 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR33 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| JR38 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR39 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR40 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| R101 | 1-216-075-00 | METAL GLAZE 12K 5% 1/10W | |
| R102 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R103 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R104 | 1-216-051-00 | METAL GLAZE 1.2K 5% 1/10W | |
| R106 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R107 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R108 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R110 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R113 | 1-216-031-00 | METAL GLAZE 180 5% 1/10W | |
| R114 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R115 | 1-216-027-00 | METAL GLAZE 120 5% 1/10W | |
| R116 | 1-216-101-00 | METAL GLAZE 150K 5% 1/10W | |
| R117 | 1-216-097-00 | METAL GLAZE 100K 5% 1/10W | |
| R118 | 1-216-117-00 | METAL GLAZE 680K 5% 1/10W | |
| R119 | 1-216-240-00 | METAL GLAZE 56K 5% 1/8W | |
| R120 | 1-216-075-00 | METAL GLAZE 12K 5% 1/10W | |
| R121 | 1-216-053-00 | METAL GLAZE 1.5K 5% 1/10W | |
| R122 | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W | |
| R123 | 1-216-075-00 | METAL GLAZE 12K 5% 1/10W | |
| R124 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R125 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R127 | 1-216-047-00 | METAL GLAZE 820 5% 1/10W | |
| R130 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R131 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R132 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | |
| R133 | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W | |
| R134 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R135 | 1-216-198-00 | METAL GLAZE 1K 5% 1/8W | |
| R150 | 1-216-043-00 | METAL GLAZE 560 5% 1/10W | |
| R151 | 1-216-043-00 | METAL GLAZE 560 5% 1/10W | |
| R152 | 1-216-043-00 | METAL GLAZE 560 5% 1/10W | |
| R153 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R154 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R155 | 1-216-051-00 | METAL GLAZE 1.2K 5% 1/10W | |
| R156 | 1-216-083-00 | METAL GLAZE 27K 5% 1/10W | |
| R157 | 1-216-051-00 | METAL GLAZE 1.2K 5% 1/10W | |
| R159 | 1-216-107-00 | METAL GLAZE 270K 5% 1/10W | |
| R160 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R161 | 1-218-755-11 | METAL CHIP 130K 0.50% 1/10W | |
| R162 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R163 | 1-216-113-00 | METAL GLAZE 470K 5% 1/10W | |
| R164 | 1-216-113-00 | METAL GLAZE 470K 5% 1/10W | |
| R165 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R166 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R167 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R168 | 1-216-113-00 | METAL GLAZE 470K 5% 1/10W | |
| R169 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R170 | 1-216-083-00 | METAL GLAZE 27K 5% 1/10W | |
| R171 | 1-216-075-00 | METAL GLAZE 12K 5% 1/10W | |
| R172 | 1-216-095-00 | METAL GLAZE 82K 5% 1/10W | |
| R173 | 1-216-059-00 | METAL GLAZE 2.7K 5% 1/10W | |
| R174 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R175 | 1-216-083-00 | METAL GLAZE 27K 5% 1/10W | |
| R176 | 1-216-075-00 | METAL GLAZE 12K 5% 1/10W | |
| R177 | 1-216-095-00 | METAL GLAZE 82K 5% 1/10W | |

## IF (KV-B2511A/B2511D B2511K/B2513E)

## IF (KV-B2511B)

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| R178 | 1-216-059-00 | METAL GLAZE 2.7K 5% 1/10W | |
| R179 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | |
| R180 | 1-216-037-00 | METAL GLAZE 330 5% 1/10W | |
| R181 | 1-216-037-00 | METAL GLAZE 330 5% 1/10W | |
| | | <VARIABLE RESISTOR> | |
| RV1 | 1-241-121-11 | RES, ADJ, CARBON 4.7K | |
| | | <TRANSFORMER> | |
| T4 | 1-416-017-21 | COIL | |
| T5 | 1-416-018-21 | COIL | |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | 1-466-735-11 | IF BLOCK (IFH-389F) (KV-B2511B)<br>******************* | |
| | | <CAPACITOR> | |
| C1 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% 50V | |
| C2 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C3 | 1-124-903-11 | ELECT 1MF 20% 50V | |
| C4 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C5 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C6 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% 50V | |
| C7 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C8 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% 50V | |
| C9 | 1-124-916-11 | ELECT 22MF 20% 25V | |
| C10 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C11 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C13 | 1-163-059-00 | CERAMIC CHIP 0.01MF 10% 50V | |
| C14 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C15 | 1-124-903-11 | ELECT 1MF 20% 50V | |
| C16 | 1-163-061-00 | CERAMIC CHIP 0.015MF 10% 50V | |
| C17 | 1-162-638-11 | CERAMIC CHIP 1MF 16V | |
| C18 | 1-162-638-11 | CERAMIC CHIP 1MF 16V | |
| C19 | 1-163-141-00 | CERAMIC CHIP 0.001MF 5% 50V | |
| C20 | 1-124-902-00 | ELECT 0.47MF 20% 50V | |
| C21 | 1-124-903-11 | ELECT 1MF 20% 50V | |
| C22 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C23 | 1-124-902-00 | ELECT 0.47MF 20% 50V | |
| C24 | 1-164-506-11 | CERAMIC CHIP 4.7MF 16V | |
| C25 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C26 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C27 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C28 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C33 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| C34 | 1-124-907-11 | ELECT 10MF 20% 50V | |
| C35 | 1-124-925-11 | ELECT 2.2MF 20% 50V | |
| C36 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C37 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C38 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% 50V | |
| C40 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C71 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C72 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% 50V | |
| C80 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C83 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C84 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C85 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C86 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C87 | 1-124-477-11 | ELECT 47MF 20% 16V | |
| C91 | 1-163-229-11 | CERAMIC CHIP 12PF 5% 50V | |
| C95 | 1-164-337-11 | CERAMIC CHIP 2.2MF 16V | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| C101 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% | 50V |
| C102 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% | 50V |
| C104 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% | 50V |
| C105 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% | 50V |
| C106 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% | 50V |
| C121 | 1-126-176-11 | ELECT 220MF 20% | 10V |
| C122 | 1-163-119-00 | CERAMIC CHIP 120PF 5% | 50V |
| C131 | 1-126-099-11 | ELECT 2.2MF 20% | 35V |
| | | <FILTER> | |
| CF1 | 1-527-839-00 | FILTER, CERAMIC | |
| CF2 | 1-567-569-11 | FILTER, CERAMIC | |
| CF3 | 1-527-840-00 | FILTER, CERAMIC | |
| CF4 | 1-567-570-11 | FILTER, CERAMIC | |
| SWF1 | 1-579-662-11 | FILTER, SURFACE WAVE | |
| SWF3 | 1-404-711-11 | SAWF | |
| SWF4 | 1-579-660-11 | FILTER, SAWTOOTH WAVE | |
| | | <CONNECTOR> | |
| CN1 | 1-750-173-11 | PIN, CONNECTOR (PC BOARD) 10P | |
| CN2 | 1-750-173-11 | PIN, CONNECTOR (PC BOARD) 10P | |
| | | <TRIMMER> | |
| CT1 | 1-404-801-11 | TRAP, CERAMIC | |
| CT2 | 1-409-429-11 | TRAP, CERAMIC | |
| CV1 | 1-141-245-00 | CAP, TRIMMER | |
| CV2 | 1-141-245-00 | CAP, TRIMMER | |
| CV3 | 1-141-304-21 | TRIMMER, CERAMIC | |
| | | <DIODE> | |
| D7 | 8-719-421-57 | DIODE MA73-TX | |
| D8 | 8-719-421-57 | DIODE MA73-TX | |
| D9 | 8-719-421-57 | DIODE MA73-TX | |
| | | <IC> | |
| IC1 | 8-759-070-75 | IC M52312SP | |
| IC2 | 8-759-070-71 | IC TDA9820 | |
| IC3 | 8-759-979-62 | IC PCF8574 | |
| | | <COIL> | |
| L1 | 1-408-419-00 | INDUCTOR 68UH | |
| L2 | 1-408-419-00 | INDUCTOR 68UH | |
| L3 | 1-408-407-00 | INDUCTOR 6.8UH | |
| L4 | 1-408-419-00 | INDUCTOR 68UH | |
| L5 | 1-408-419-00 | INDUCTOR 68UH | |
| L7 | 1-408-406-00 | INDUCTOR 5.6UH | |
| L9 | 1-408-419-00 | INDUCTOR 68UH | |
| L71 | 1-408-419-00 | INDUCTOR 68UH | |
| L101 | 1-408-399-00 | INDUCTOR 1.5UH | |
| L121 | 1-408-407-00 | INDUCTOR 6.8UH | |
| | | <TRANSISTOR> | |
| Q1 | 8-729-907-06 | TRANSISTOR BF199-AMMO | |
| Q4 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q5 | 8-729-115-10 | TRANSISTOR 2SK105A-10 | |
| Q6 | 8-729-900-52 | TRANSISTOR DTC114YK | |
| Q7 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |

## IF (KV-B2511B) IF (KV-B2512U)

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| Q8 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q10 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q11 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q12 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q13 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q14 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q15 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q16 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q101 | 8-729-104-80 | TRANSISTOR 2SC3355 | | | | |
| Q121 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| JR2 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR3 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR5 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R1 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R2 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R3 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R4 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R5 | 1-216-021-00 | METAL GLAZE | 68 | 5% | 1/10W | |
| R6 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | |
| R8 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R9 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R10 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R11 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R24 | 1-216-280-00 | METAL GLAZE | 2.7M | 5% | 1/8W | |
| R25 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R26 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R27 | 1-216-266-00 | METAL GLAZE | 680K | 5% | 1/8W | |
| R28 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R29 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R30 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R31 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R32 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R33 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R34 | 1-216-252-00 | METAL GLAZE | 180K | 5% | 1/8W | |
| R35 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R36 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R37 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R38 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W | |
| R39 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R40 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R42 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R43 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R44 | 1-216-027-00 | METAL GLAZE | 120 | 5% | 1/10W | |
| R45 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R46 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R47 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R48 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R49 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R53 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R54 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R55 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R56 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R57 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R58 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R59 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R60 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R61 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R63 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R71 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R72 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R73 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R74 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R75 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R76 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R77 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | |
| R81 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R82 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W | |
| R83 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R84 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R85 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R86 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R87 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R88 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R89 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R90 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R91 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R92 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R93 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R94 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R95 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R96 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R97 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R98 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R99 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R100 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R102 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R103 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R104 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R105 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R121 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R122 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R123 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R124 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R125 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R301 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R302 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R303 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R304 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R305 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R306 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R307 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R308 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |

<VARIABLE RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| RV2 | 1-241-120-11 | RES, ADJ, CARBON 2.2K | |

<TRANSFORMER>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| T1 | 1-404-806-21 | COIL | |
| T3 | 1-416-012-11 | COIL | |
| T4 | 1-416-012-11 | COIL | |
| T5 | 1-402-720-11 | COIL | |

<CRYSTAL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| X1 | 1-579-648-21 | VIBRATOR, CERAMIC | |

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1-466-734-11 IF BLOCK (IFH-395) (KV-B2512U)
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<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C101 | 1-163-239-11 | CERAMIC CHIP 33PF | % | 50V | |

# IF (KV-B2512U)

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C102 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V |
| C103 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C104 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C105 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C106 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C107 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C108 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C109 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C112 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C113 | 1-163-101-00 | CERAMIC CHIP | 22PF | 5% | 50V |
| C114 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C115 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C116 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C118 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C119 | 1-163-369-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C122 | 1-163-093-00 | CERAMIC CHIP | 10PF | 5% | 50V |
| C130 | 1-216-295-00 | METAL GLAZE | 0 5% | 1/10W | |
| C131 | 1-163-224-11 | CERAMIC CHIP | 7PF | 0.25PF | 50V |
| C133 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C161 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C162 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V |
| C163 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C164 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C165 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C166 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C167 | 1-163-213-00 | CERAMIC CHIP | 0.0022MF | 5% | 50V |
| C168 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C170 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C171 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| | | <FILTER> | | | |
| CD1 | 1-579-657-21 | DISCRIMINATOR, CERAMIC | | | |
| CF1 | 1-567-569-11 | FILTER, CERAMIC | | | |
| SWF1 | 1-579-659-11 | FILTER, SAWTOOTH WAVE | | | |
| | | <CONNECTOR> | | | |
| CN1 | 1-750-173-11 | PIN, CONNECTOR (PC BOARD) 10P | | | |
| CN2 | 1-750-173-11 | PIN, CONNECTOR (PC BOARD) 10P | | | |
| | | <TRIMMER> | | | |
| CT1 | 1-409-333-00 | TRAP, CERAMIC (6.0MHZ) | | | |
| | | <DIODE> | | | |
| D161 | 8-719-400-18 | DIODE MA152WK | | | |
| | | <IC> | | | |
| IC1 | 8-759-070-76 | IC M52308SP | | | |
| IC3 | 8-759-514-54 | IC BA7046 | | | |
| | | <COIL> | | | |
| L101 | 1-408-414-00 | INDUCTOR | 27UH | | |
| L102 | 1-408-419-00 | INDUCTOR | 68UH | | |
| L103 | 1-408-419-00 | INDUCTOR | 68UH | | |
| L104 | 1-408-406-00 | INDUCTOR | 5.6UH | | |
| L105 | 1-408-410-00 | INDUCTOR | 12UH | | |
| L142 | 1-410-790-41 | INDUCTOR | 0.56UH | | |
| L161 | 1-408-419-00 | INDUCTOR | 68UH | | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <TRANSISTOR> | | | | |
| Q101 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q102 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q122 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q161 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q172 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q173 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| | | <RESISTOR> | | | | |
| JR1 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR2 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR3 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR4 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR7 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR8 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR9 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR10 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR11 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR12 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR13 | 1-163-093-00 | CERAMIC CHIP | 10PF | | 5% | 50V |
| JR14 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR16 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR18 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR19 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR20 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR21 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR23 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR24 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR25 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR29 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR30 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR33 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR38 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR39 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR40 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR41 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR42 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR101 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R101 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R102 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R103 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R104 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R105 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R106 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R107 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R108 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R110 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R112 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R113 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R114 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R115 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R116 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W | |
| R117 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R118 | 1-216-117-00 | METAL GLAZE | 680K | 5% | 1/10W | |
| R119 | 1-216-240-00 | METAL GLAZE | 56K | 5% | 1/8W | |
| R120 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R121 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R122 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R123 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R130 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R131 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R132 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R133 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R134 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R135 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W | |
| R153 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R159 | 1-216-107-00 | METAL GLAZE | 270K | 5% | 1/10W | |
| R160 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R161 | 1-218-755-11 | METAL CHIP | 130K | 0.50% | 1/10W | |
| R162 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R163 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R164 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R165 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R166 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R167 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R168 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R169 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R175 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R176 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R177 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W | |
| R178 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R179 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R181 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |

<VARIABLE RESISTOR>

| | | |
|---|---|---|
| RV1 | 1-241-121-11 | RES, ADJ, CARBON 4.7K |

<TRANSFORMER>

| | | |
|---|---|---|
| T4 | 1-416-017-21 | COIL |
| T5 | 1-416-018-21 | COIL |

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*A-1635-001-A M BOARD, COMPLETE

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<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C001 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C003 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C007 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C008 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C010 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C011 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C012 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C014 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C016 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C018 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V |
| C019 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C032 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C035 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V |
| C036 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C037 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C501 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C502 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C503 | 1-137-367-11 | FILM | 0.0033MF | 5% | 50V |
| C504 | 1-130-831-21 | MYLAR | 0.56MF | 10% | 63V |
| C505 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C506 | 1-162-568-11 | CERAMIC CHIP | 0.33MF | 10% | 16V |
| C507 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C508 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C509 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C510 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C511 | 1-106-375-12 | MYLAR | 0.022MF | 10% | 250V |
| C512 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C513 | 1-163-209-00 | CERAMIC CHIP | 0.0015MF | 5% | 50V |
| C514 | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | 50V |
| C519 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C522 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C523 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C531 | 1-164-493-11 | CERAMIC CHIP | 0.047MF | 10% | 50V |
| C532 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C538 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C541 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C542 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V |
| C543 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C544 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C546 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C547 | 1-163-020-00 | CERAMIC CHIP | 0.0082MF | 10% | 50V |
| C549 | 1-163-989-11 | CERAMIC CHIP | 0.033MF | 10% | 25V |
| C550 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C552 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V |
| C559 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C560 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C562 | 1-216-295-00 | METAL GLAZE | 0 5% | 1/10W | |
| C563 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C564 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C565 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C566 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C567 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C568 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C569 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C570 | 1-162-568-11 | CERAMIC CHIP | 0.33MF | 10% | 16V |

<FILTER>

| | | |
|---|---|---|
| CD001 | 1-577-364-11 | VIBRATOR, CERAMIC |

<CONNECTOR>

| | | |
|---|---|---|
| CN1406 | *1-568-880-51 | PIN, CONNECTOR 5P |
| CN1413 | 1-695-301-11 | CONNECTOR, BOARD TO BOARD 40P |
| CN1426 | *1-568-881-51 | PIN, CONNECTOR 6P |
| CN1432 | *1-568-882-51 | PIN, CONNECTOR 7P |
| CN1441 | *1-564-511-11 | PLUG, CONNECTOR 8P |

<DIODE>

| | | |
|---|---|---|
| D001 | 8-719-027-82 | DIODE MA3039H-TX |
| D501 | 8-719-800-76 | DIODE 1SS226 |
| D503 | 8-719-401-31 | DIODE MA3047L-TX |
| D504 | 8-719-400-18 | DIODE MA152WK |
| D510 | 8-719-105-91 | DIODE RD5.6M-B2 |

<IC>

| | | |
|---|---|---|
| IC001 | 8-759-072-93 | IC SDA30C162 |
| | *1-540-123-11 | SOCKET, IC 68P; IC001 |
| IC003 | 8-759-160-87 | IC M27C512-20B1-AE27 |
| IC501 | 8-759-513-48 | IC TDA2595/V9 |
| IC561 | 8-752-347-92 | IC CXD2018Q |
| IC562 | 8-759-998-98 | IC LM358D |
| IC563 | 8-759-081-30 | IC MC78L05ACPRP |

<COIL>

| | | | |
|---|---|---|---|
| L001 | 1-408-421-00 | INDUCTOR | 100UH |

## M C

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| L501 | 1-410-119-11 | INDUCTOR | 1MMH | | | |
| L561 | 1-408-409-00 | INDUCTOR | 10UH | | | |
| L562 | 1-408-409-00 | INDUCTOR | 10UH | | | |
| L563 | 1-408-947-00 | INDUCTOR | 2.2MMH | | | |

<TRANSISTOR>

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| Q002 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | |
| Q003 | 8-729-901-81 | TRANSISTOR | 2SC2412K-T-146-R | |
| Q501 | 8-729-901-01 | TRANSISTOR | DTC144EK | |
| Q502 | 8-729-901-81 | TRANSISTOR | 2SC2412K-T-146-R | |
| Q503 | 8-729-901-01 | TRANSISTOR | DTC144EK | |
| Q508 | 8-729-901-01 | TRANSISTOR | DTC144EK | |
| Q509 | 8-729-901-81 | TRANSISTOR | 2SC2412K-T-146-R | |
| Q564 | 8-729-216-22 | TRANSISTOR | 2SA1162-G | |
| Q565 | 8-729-901-81 | TRANSISTOR | 2SC2412K-T-146-R | |
| Q566 | 8-729-901-81 | TRANSISTOR | 2SC2412K-T-146-R | |
| Q567 | 8-729-901-01 | TRANSISTOR | DTC144EK | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| JR002 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R001 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R002 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R003 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R006 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R007 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R008 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R010 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R011 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R012 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R014 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R015 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R016 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R017 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R018 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R020 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R021 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R025 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R026 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R028 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R030 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R032 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R033 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R034 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R035 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R038 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R049 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R050 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R051 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R052 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R053 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R054 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R055 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R067 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R068 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R069 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R070 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R501 | 1-216-047-00 | METAL GLAZE | 820 | 5% | 1/10W | |
| R502 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R503 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R504 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R505 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R506 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R507 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R509 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R510 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R511 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R512 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R513 | 1-216-230-00 | METAL GLAZE | 22K | 5% | 1/8W | |
| R514 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R515 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R516 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R517 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R518 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R519 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R520 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R521 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | |
| R522 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R523 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R524 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R525 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R526 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R527 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R528 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R529 | 1-216-696-11 | METAL CHIP | 75K | 0.50% | 1/10W | |
| R531 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R532 | 1-249-427-11 | METAL | 6.8K | 5% | 1/4W | |
| R533 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | |
| R535 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R536 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R538 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R539 | 1-216-657-11 | METAL CHIP | 1.8K | 0.50% | 1/10W | |
| R540 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R541 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R542 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R544 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R545 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R546 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R547 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R551 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R552 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R553 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R559 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R560 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R564 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R565 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R566 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R567 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R568 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | |
| R570 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |

<VARIABLE RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| RV506 | 1-241-766-11 | RES, ADJ, CERMET 47K | |

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*A-1638-030-A C BOARD, COMPLETE
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<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C701 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV | |
| C703 | 1-123-946-00 | ELECT | 4.7MF | 20% | 250V | |
| C704 | 1-130-202-00 | FILM | 0.022MF | 5% | 400V | |
| C705 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV | |
| C708 | 1-163-197-00 | CERAMIC CHIP | 470PF | 10% | 50V | |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

**C** **D**

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| C709 | 1-163-005-11 | CERAMIC CHIP 470PF 10% 50V | |
| C710 | 1-163-005-11 | CERAMIC CHIP 470PF 10% 50V | |
| C711 | 1-101-880-00 | CERAMIC 47PF 5% 50V | |
| C712 | 1-163-121-00 | CERAMIC CHIP 150PF 5% 50V | |
| C713 | 1-163-121-00 | CERAMIC CHIP 150PF 5% 50V | |
| C714 | 1-163-121-00 | CERAMIC CHIP 150PF 5% 50V | |
| C716 | 1-124-122-11 | ELECT 100MF 20% 50V | |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN0002 | *1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P | |
| CN0403 | *1-564-511-11 | PLUG, CONNECTOR 8P | |
| CN0421 | *1-508-768-00 | PIN, CONNECTOR (5MM PITCH) 6P | |

<DIODE>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D701 | 8-719-911-19 | DIODE 1SS119 | |
| D702 | 8-719-911-19 | DIODE 1SS119 | |
| D703 | 8-719-911-19 | DIODE 1SS119 | |
| D704 | 8-719-911-19 | DIODE 1SS119 | |
| D705 | 8-719-911-19 | DIODE 1SS119 | |
| D706 | 8-719-911-19 | DIODE 1SS119 | |
| D707 | 8-719-911-19 | DIODE 1SS119 | |
| D708 | 8-719-911-19 | DIODE 1SS119 | |
| D709 | 8-719-911-19 | DIODE 1SS119 | |
| D710 | 8-719-911-19 | DIODE 1SS119 | |
| D713 | 8-719-908-03 | DIODE GP08D | |

<JACK>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| J701 ⚠ | 1-526-990-13 | SOCKET, PICTURE TUBE | |

<COIL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L701 | 1-410-667-31 | INDUCTOR 22UH | |
| L703 | 1-408-609-41 | INDUCTOR 33UH | |
| L705 | 1-408-609-41 | INDUCTOR 33UH | |
| L707 | 1-408-609-41 | INDUCTOR 33UH | |

<TRANSISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q701 | 8-729-906-70 | TRANSISTOR BF871 | |
| Q702 | 8-729-906-70 | TRANSISTOR BF871 | |
| Q703 | 8-729-906-70 | TRANSISTOR BF871 | |
| Q704 | 8-729-906-70 | TRANSISTOR BF871 | |
| Q705 | 8-729-906-70 | TRANSISTOR BF871 | |
| Q706 | 8-729-906-70 | TRANSISTOR BF871 | |
| Q707 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| Q708 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| Q709 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| Q710 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q711 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q712 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q713 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q714 | 8-729-255-12 | TRANSISTOR 2SC2551-0 | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| JR701 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR703 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| R701 | 1-202-848-00 | SOLID 680K 10% 1/2W | |
| R702 | 1-202-838-00 | SOLID 100K 20% 1/2W | |
| R703 | 1-202-838-00 | SOLID 100K 20% 1/2W | |
| R704 | 1-202-842-11 | SOLID 220K 10% 1/2W | |
| R705 | 1-216-398-11 | METAL OXIDE 5.6 5% 3W | F |
| R706 | 1-216-398-11 | METAL OXIDE 5.6 5% 3W | F |
| R710 | 1-215-899-11 | METAL OXIDE 15K 5% 2W | F |
| R711 | 1-202-820-11 | SOLID 1.5K 20% 1/2W | |
| R712 | 1-215-899-11 | METAL OXIDE 15K 5% 2W | F |
| R713 | 1-202-820-11 | SOLID 1.5K 20% 1/2W | |
| R714 | 1-215-899-11 | METAL OXIDE 15K 5% 2W | F |
| R715 | 1-202-820-11 | SOLID 1.5K 20% 1/2W | |
| R716 | 1-247-700-11 | CARBON 100 5% 1/4W | F |
| R717 | 1-249-405-11 | CARBON 100 5% 1/4W | F |
| R718 | 1-247-700-11 | CARBON 100 5% 1/4W | F |
| R720 | 1-249-417-11 | CARBON 1K 5% 1/4W | F |
| R722 | 1-247-713-11 | CARBON 1K 5% 1/4W | F |
| R724 | 1-249-417-11 | CARBON 1K 5% 1/4W | F |
| R725 | 1-216-067-00 | METAL GLAZE 5.6K 5% 1/10W | |
| R726 | 1-216-067-00 | METAL GLAZE 5.6K 5% 1/10W | |
| R727 | 1-216-067-00 | METAL GLAZE 5.6K 5% 1/10W | |
| R728 | 1-216-039-00 | METAL GLAZE 390 5% 1/10W | |
| R729 | 1-216-039-00 | METAL GLAZE 390 5% 1/10W | |
| R730 | 1-216-039-00 | METAL GLAZE 390 5% 1/10W | |
| R731 | 1-216-017-00 | METAL GLAZE 47 5% 1/10W | |
| R732 | 1-216-017-00 | METAL GLAZE 47 5% 1/10W | |
| R733 | 1-216-017-00 | METAL GLAZE 47 5% 1/10W | |
| R734 | 1-202-549-00 | SOLID 100 20% 1/2W | |
| R735 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R738 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R739 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R740 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R741 | 1-216-089-00 | METAL GLAZE 47K 5% 1/10W | |
| R742 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| R743 | 1-249-434-11 | CARBON 27K 5% 1/4W | |
| R747 | 1-216-488-11 | METAL OXIDE 18K 5% 3W | F |
| R749 | 1-215-926-00 | METAL OXIDE 33K 5% 3W | F |
| R751 | 1-216-489-11 | METAL OXIDE 27K 5% 3W | F |
| R753 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R755 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | |
| R756 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | |
| R757 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | |
| R758 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R759 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R760 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |

<VARIABLE RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| RV701 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M | |
| RV702 | 1-241-656-21 | RES, ADJ, METAL FILM 110M | |

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*A-1642-089-A D BOARD, COMPLETE
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| PART NO. | DESCRIPTION |
|---|---|
| 4-200-001-11 | HOLDER, IC |
| 4-201-023-11 | SPACER, INSULATING |
| *4-368-683-11 | SPRING, TRANSISTOR |
| *4-389-343-11 | SPRING, IC |

<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| C601 | 1-130-202-00 | FILM 0.022MF 10% 400V | |
| C603 ⚠ | 1-164-246-61 | CERAMIC 0.0022MF 20% 400V | |
| C605 | 1-124-910-11 | ELECT 47MF 20% 50V | |
| C608 | 1-124-903-11 | ELECT 1MF 20% 50V | |
| C611 | 1-102-002-00 | CERAMIC 680PF 10% 500V | |
| C612 | 1-137-437-11 | FILM 0.0056MF 5% 50V | |

**D**

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Ne les remplacer que par une piece portant le numero specifie.

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Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C613 | 1-129-722-00 | FILM | 0.047MF | 10% | 630V |
| C614 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V |
| C615 | 1-126-943-11 | ELECT | 2200MF | 20% | 25V |
| C616 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V |
| C617 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C618 | 1-162-134-11 | CERAMIC | 470PF | 10% | 2KV |
| C619 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V |
| C620 | 1-164-299-11 | CERAMIC CHIP | 0.22MF | 10% | 25V |
| C621 | 1-124-347-00 | ELECT | 100MF | 20% | 160V |
| C622 | 1-128-320-11 | ELECT | 2200MF | 20% | 16V |
| C623 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V |
| C624 | 1-126-800-51 | ELECT | 2200MF | 20% | 35V |
| C625 | 1-126-800-51 | ELECT | 2200MF | 20% | 35V |
| C627 | 1-137-365-11 | FILM | 0.0015MF | 5% | 50V |
| C628 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C629 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C631 | 1-163-075-00 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C632 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| C633 | 1-163-078-11 | CERAMIC CHIP | 0.033MF | 10% | 25V |
| C636 | 1-130-777-00 | FILM | 0.1MF | 5% | 63V |
| C640 | 1-124-916-11 | ELECT | 22MF | 20% | 50V |
| C801 | 1-137-116-11 | FILM | 1MF | 5% | 200V |
| C803 | 1-164-695-11 | CERAMIC CHIP | 0.0022MF | 5% | 50V |
| C804 | 1-106-383-00 | MYLAR | 0.047MF | 10% | 100V |
| C805 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C806 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C808 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV |
| C809 | 1-124-808-51 | ELECT | 10MF | 20% | 200V |
| C810 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C812 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C813 | 1-110-364-11 | MYLAR | 0.1MF | 10% | 200V |
| C815 | 1-162-117-00 | CERAMIC | 100PF | 10% | 500V |
| C819 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C821 | ⚠1-136-897-11 | FILM | 0.021MF | 3% | 2KV |
| C822 | ⚠1-162-116-91 | CERAMIC | 680PF | 10% | 2KV |
| C823 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C824 | 1-137-368-11 | FILM | 0.0047MF | 5% | 50V |
| C825 | ⚠1-162-116-91 | CERAMIC | 680PF | 10% | 2KV |
| C826 | ⚠1-136-895-51 | FILM | 0.068MF | 5% | 630V |
| C827 | 1-106-383-00 | MYLAR | 0.047MF | 10% | 100V |
| C828 | 1-136-557-11 | FILM | 0.0033MF | 10% | 400V |
| C831 | 1-123-932-00 | ELECT | 4.7MF | 20% | 160V |
| C832 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C833 | 1-136-828-11 | FILM | 1.8MF | 5% | 200V |
| C834 | 1-137-513-11 | FILM | 0.62MF | 5% | 200V |
| C835 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C836 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C837 | 1-129-702-00 | FILM | 0.001MF | 10% | 400V |
| C838 | 1-129-725-00 | FILM | 0.082MF | 10% | 250V |
| C839 | 1-123-950-00 | ELECT | 47MF | 20% | 250V |
| C840 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C841 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C842 | 1-104-722-91 | FILM | 0.068MF | 10% | 250V |
| C846 | 1-123-024-21 | ELECT | 33MF | | 160V |
| C851 | 1-136-559-11 | MYLAR | 0.0047MF | 10% | 400V |
| C852 | 1-164-299-11 | CERAMIC CHIP | 0.22MF | 10% | 25V |
| C853 | 1-124-910-11 | ELECT | 47MF | 20% | 50V |
| C854 | ⚠1-162-115-91 | CERAMIC | 330PF | 10% | 2KV |
| C857 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C861 | 1-130-777-00 | FILM | 0.1MF | 5% | 63V |
| C863 | 1-106-383-00 | MYLAR | 0.047MF | 10% | 100V |
| C866 | 1-129-702-00 | FILM | 0.001MF | 10% | 400V |
| C868 | 1-137-371-11 | FILM | 0.015MF | 5% | 50V |
| C869 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C870 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C871 | 1-130-651-00 | FILM | 0.001MF | 2% | 100V |
| C872 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C873 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C875 | 1-102-038-00 | CERAMIC | 0.001MF | | 500V |
| C877 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C878 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C879 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C1501 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C1502 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1503 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C1504 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C1505 | 1-124-911-11 | ELECT | 220MF | 20% | 50V |
| C1506 | 1-136-202-11 | FILM | 0.33MF | 5% | 63V |
| C1507 | 1-106-228-00 | MYLAR | 0.22MF | 10% | 100V |
| C1508 | 1-124-480-11 | ELECT | 470MF | 20% | 25V |
| C1509 | 1-124-767-00 | ELECT | 2.2MF | 20% | 50V |
| C1511 | 1-124-907-11 | ELECT | 10MF | 20% | 50V |
| C1512 | 1-124-006-11 | ELECT | 10MF | 20% | 25V |
| C1514 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C1515 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN0004 | *1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P |
| CN0009 | 1-568-878-51 | PIN, CONNECTOR 3P |
| CN0504 | *1-568-882-51 | PIN, CONNECTOR 7P |
| CN0505 | *1-568-880-51 | PIN, CONNECTOR 5P |
| CN0506 | *1-568-880-51 | PIN, CONNECTOR 5P |
| CN0519 | *1-568-878-51 | PIN, CONNECTOR 3P |
| CN0521 | *1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P |
| CN0524 | *1-568-878-51 | PIN, CONNECTOR 3P |
| CN0525 | *1-695-294-11 | PIN, CONNECTOR (PC BOARD) 6P |
| CN0526 | *1-568-881-51 | PIN, CONNECTOR 6P |
| CN0529 | *1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P |
| CN5521 | *1-568-878-51 | PIN, CONNECTOR 3P |
| DY1 | *1-580-798-11 | CONNECTOR PIN (DY) 6P |

<DIODE>

| REF.NO. | PART NO. | DESCRIPTION |
|---|---|---|
| D602 | 8-719-300-33 | DIODE RU-3AM |
| D606 | 8-719-300-33 | DIODE RU-3AM |
| D608 | 8-719-300-33 | DIODE RU-3AM |
| D610 | 1-806-660-11 | DIODE ESAB85-009 |
| D611 | 8-719-029-04 | DIODE D5L60 |
| D612 | 8-719-510-09 | DIODE D10SC6M |
| D613 | 8-719-920-68 | DIODE ESAB92-02 |
| D614 | 8-719-920-68 | DIODE ESAB92-02 |
| D616 | 8-719-110-31 | DIODE RD12ES-B2 |
| D619 | 8-719-400-18 | DIODE MA152WK |
| D620 | 8-719-911-19 | DIODE 1SS119 |
| D624 | 8-719-312-40 | DIODE R2K |
| D801 | 8-719-018-82 | DIODE RGP02-20EL-6394 |
| D802 | 8-719-300-33 | DIODE RU-3AM |
| D804 | 8-719-400-18 | DIODE MA152WK |
| D808 | 8-719-109-88 | DIODE RD5.6ES-B1 |
| D809 | 8-719-110-03 | DIODE RD7.5ES-B2 |
| D812 | 8-719-908-03 | DIODE GP08D |
| D813 | 8-719-908-03 | DIODE GP08D |
| D814 | 8-719-979-85 | DIODE EGP20G |
| D815 | 8-719-300-33 | DIODE RU-3AM |
| D816 | 8-719-979-85 | DIODE EGP20G |
| D818 | 8-719-109-93 | DIODE RD6.2ES-B2 |
| D821 | 8-719-400-18 | DIODE MA152WK |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D822 | 8-719-982-20 | DIODE MTZJ-30B | |
| D824 | 8-719-976-64 | DIODE RGP02-17 | |
| D825 | 8-719-400-18 | DIODE MA152WK | |
| D826 | 8-719-400-18 | DIODE MA152WK | |
| D827 | 8-719-983-50 | DIODE MTZJ-T-72-2.2A | |
| D828 | 8-719-911-19 | DIODE 1SS119 | |
| D830 | 8-719-400-18 | DIODE MA152WK | |
| D831 | 8-719-400-18 | DIODE MA152WK | |
| D832 | 8-719-400-18 | DIODE MA152WK | |
| D833 | 8-719-400-18 | DIODE MA152WK | |
| D1501 | 8-719-400-18 | DIODE MA152WK | |
| D1503 | 8-719-908-03 | DIODE GP08D | |
| D1504 | 8-719-930-14 | DIODE HZS3.6NB1TD | |

<IC>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| IC601 | 8-759-073-29 | IC TDA4605-3 | |
| IC602 | 8-759-908-15 | IC TL431CLP | |
| IC603⚠ | 8-749-923-44 | IC SFH617G-1 | |
| IC801 | 8-759-987-16 | IC LM393P | |
| IC802 | 8-759-987-16 | IC LM393P | |
| IC803 | 8-759-081-31 | IC MC78L12ACPRP | |
| IC1501 | 8-759-506-46 | IC TDA8179S | |

<COIL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L602 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| L603 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| L604 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| L605 | 1-459-442-00 | COIL (WITH CORE) | |
| L606 | 1-459-442-00 | COIL (WITH CORE) | |
| L610 | 1-410-397-21 | FERRITE BEAD INDUCTOR | |
| L622 | 1-412-533-21 | INDUCTOR 47UH | |
| L623 | 1-412-533-21 | INDUCTOR 47UH | |
| L803 | 1-420-872-00 | COIL, AIR CORE | |
| L804 | 1-410-396-41 | FERRITE BEAD INDUCTOR | |
| L808 | 1-412-549-11 | INDUCTOR 1MMH | |
| L809 | 1-459-104-00 | COIL, WITH CORE | |
| L810 | 1-460-197-21 | COIL, FERRITE (PMC) | |
| L811 | 1-412-519-11 | INDUCTOR 3.3UH | |
| L812 | 1-412-519-11 | INDUCTOR 3.3UH | |
| L813 | 1-412-519-11 | INDUCTOR 3.3UH | |
| L817 | 1-460-196-11 | COIL, HORIZONTAL LINEARITY | |
| L1501 | 1-412-531-31 | INDUCTOR 33UH | |
| L1502 | 1-412-525-21 | INDUCTOR 10UH | |
| L1503 | 1-412-531-31 | INDUCTOR 33UH | |

<IC LINK>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| PS601⚠ | 1-532-686-91 | LINK, IC 2.7A | |
| PS602⚠ | 1-532-686-91 | LINK, IC 2.7A | |
| PS603⚠ | 1-532-686-91 | LINK, IC 2.7A | |
| PS604⚠ | 1-532-686-91 | LINK, IC 2.7A | |

<TRANSISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q601 | 8-729-016-14 | TRANSISTOR BUZ91A-E3155 | |
| Q602 | 8-729-177-22 | TRANSISTOR 2SB772-Q | |
| Q603 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q611 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q612 | 8-729-903-29 | TRANSISTOR DTA144TK | |
| Q613 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q801 | 8-729-016-32 | TRANSISTOR 2SC4927-01 | |
| Q802 | 8-729-140-97 | TRANSISTOR 2SB734-34 | |
| Q804 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q805 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q806 | 8-729-019-71 | TRANSISTOR 2SK1916-53-F50 | |
| Q807 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | |
| Q812 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q813 | 8-729-140-96 | TRANSISTOR 2SD774-34 | |
| Q818 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q1501 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | |
| Q1502 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| Q1503 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q1504 | 8-729-901-01 | TRANSISTOR DTC144EK | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| JR001 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR002 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR003 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR004 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR005 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR006 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| JR500 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR501 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR502 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR503 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR504 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR505 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR506 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR507 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR508 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR509 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR510 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| JR511 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W | |
| R601 | 1-216-360-11 | METAL OXIDE | 8.2 | 5% | 1W | F |
| R602 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R603 | 1-215-901-00 | METAL OXIDE | 33K | 5% | 2W | F |
| R604 | 1-260-200-11 | CARBON | 240K | 5% | 1/2W | |
| R605 | 1-216-313-00 | METAL GLAZE | 8.2 | 5% | 1/10W | |
| R606 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R607 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R608 | 1-215-928-11 | METAL OXIDE | 68K | 5% | 3W | F |
| R609 | 1-216-005-00 | METAL GLAZE | 15 | 5% | 1/10W | |
| R610 | 1-247-881-00 | CARBON | 120K | 5% | 1/4W | |
| R611 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | |
| R612 | 1-247-894-11 | CARBON | 430K | 5% | 1/4W | |
| R613 | 1-216-260-00 | METAL GLAZE | 390K | 5% | 1/8W | |
| R614 | 1-216-487-11 | METAL OXIDE | 12K | 5% | 3W | F |
| R615 | 1-216-487-11 | METAL OXIDE | 12K | 5% | 3W | F |
| R617 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R618 | 1-216-449-11 | METAL OXIDE | 56 | 5% | 2W | F |
| R620 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R621 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W | |
| R622 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R623 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R625 | 1-216-449-11 | METAL OXIDE | 56 | 5% | 2W | F |
| R626 | 1-216-635-11 | METAL CHIP | 220 | 0.50% | 1/10W | |
| R627 | 1-249-398-11 | CARBON | 27 | 5% | 1/4W | F |
| R629 | 1-215-464-00 | METAL | 62K | 1% | 1/4W | |
| R630 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R631 | 1-216-397-11 | METAL OXIDE | 4.7 | 5% | 3W | F |
| R633 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | |
| R634 | 1-215-477-00 | METAL | 220K | 1% | 1/4W | |
| R635 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R636 | 1-216-452-11 | METAL OXIDE | 180 | 5% | 2W | F |
| R637 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |

## D H1

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R638 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R639 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R640 | 1-207-905-00 | WIREWOUND | 0.27 | 10% | 2W | F |
| R645 | 1-215-464-00 | METAL | 62K | 1% | 1/4W | |
| R646 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R647 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R651 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R801 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R802 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R804 | 1-217-778-11 | FUSIBLE | 1K | 5% | 1W | F |
| R805 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W | |
| R806 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R807 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R808 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R809 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R811 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R812 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R813 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R814 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R815 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R819 | 1-247-755-11 | CARBON | 1.8K | 5% | 1/2W | F |
| R820 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R821 | 1-215-918-00 | METAL OXIDE | 1.5K | 5% | 3W | F |
| R822 | 1-215-918-00 | METAL OXIDE | 1.5K | 5% | 3W | F |
| R823 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R824 | 1-216-675-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R825 | 1-216-345-11 | METAL OXIDE | 0.47 | 5% | 1W | F |
| R826 | 1-216-166-00 | METAL GLAZE | 47 | 5% | 1/8W | |
| R828 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W | |
| R829 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | F |
| R830 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W | |
| R832 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R833 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | |
| R834 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | |
| R835 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R836 | 1-216-242-00 | METAL GLAZE | 68K | 5% | 1/8W | |
| R837 | 1-216-695-11 | METAL CHIP | 68K | 0.50% | 1/10W | |
| R838 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R839 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | |
| R841 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R842 | 1-215-890-11 | METAL OXIDE | 470 | 5% | 2W | F |
| R846 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W | |
| R847 | 1-216-699-11 | METAL CHIP | 100K | 0.50% | 1/10W | |
| R849 | 1-215-908-00 | METAL OXIDE | 33 | 5% | 3W | F |
| R851 | 1-247-743-11 | CARBON | 220 | 5% | 1/2W | F |
| R852 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R853 | 1-249-443-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R854 | 1-249-443-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R855 | 1-202-818-00 | SOLID | 1K | 10% | 1/2W | |
| R858 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R864 | 1-216-686-11 | METAL CHIP | 30K | 0.50% | 1/10W | |
| R865 | 1-215-493-00 | METAL | 1M | 1% | 1/4W | |
| R866 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W | |
| R867 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R868 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R871 | 1-249-493-11 | CARBON | 56K | 5% | 1/2W | |
| R872 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R873 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W | F |
| R876 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R877 | 1-215-880-00 | METAL OXIDE | 10 | 5% | 2W | F |
| R878 | 1-215-883-11 | METAL OXIDE | 33 | 5% | 2W | F |
| R884 | 1-216-693-11 | METAL CHIP | 56K | 0.50% | 1/10W | |
| R889 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R893 | 1-215-878-00 | METAL OXIDE | 33K | 5% | 1W | F |
| R894 | 1-216-264-00 | METAL GLAZE | 560K | 5% | 1/8W | |
| R895 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R897 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R898 | 1-216-262-00 | METAL GLAZE | 470K | 5% | 1/8W | |
| R1501 | 1-216-673-11 | METAL CHIP | 8.2K | 0.50% | 1/10W | |
| R1502 | 1-216-665-11 | METAL CHIP | 3.9K | 0.50% | 1/10W | |
| R1503 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1504 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1505 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1506 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1508 | 1-216-684-11 | METAL CHIP | 24K | 0.50% | 1/10W | |
| R1509 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R1510 | 1-249-382-11 | CARBON | 1.2 | 5% | 1/4W | F |
| R1511 | 1-215-887-00 | METAL OXIDE | 150 | 5% | 2W | F |
| R1512 | 1-216-371-00 | METAL OXIDE | 1.5 | 5% | 2W | F |
| R1514 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1551 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |

<VARIABLE RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| RV601 | 1-241-628-11 | RES, ADJ, CARBON 2.2K | |

<TRANSFORMER>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| T601 | ⚠1-450-997-11 | S.R.T (SMT7) | |
| T801 | ⚠1-453-118-11 | TRANSFORMER ASSY, FLYBACK (UX-2600A2) | |
| T803 | 1-437-090-00 | HDT | |

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*1-643-004-11 H1 BOARD

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<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C083 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V | |
| C087 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V | |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN1008 | *1-564-516-11 | PLUG, CONNECTOR 13P | |

<JACK>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| J81 | 1-568-678-11 | TERMINAL BLOCK, S 3P | |
| J82 | 1-562-837-11 | JACK | |

<COIL>

| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| L081 | 1-408-409-00 | INDUCTOR | 10UH | |
| L082 | 1-408-409-00 | INDUCTOR | 10UH | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| JR021 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R081 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R082 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R083 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R084 | 1-216-202-00 | METAL GLAZE | 1.5K | 5% | 1/8W | |
| R085 | 1-216-202-00 | METAL GLAZE | 1.5K | 5% | 1/8W | |

<SWITCH>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| S081 | 1-571-532-21 | SWITCH, TACTIL | |
| S082 | 1-571-532-21 | SWITCH, TACTIL | |
| S083 | 1-571-532-21 | SWITCH, TACTIL | |

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*1-642-997-11 H2 BOARD
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| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | *4-201-076-01 | HOLDER, LED | |
| | *4-374-987-01 | GUIDE, LIGHT | |
| | 4-381-686-01 | BRACKET (B), LIGHT GUIDE | |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN1132 | *1-568-882-51 | PIN, CONNECTOR 7P | |

<DIODE>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D092 | 8-719-948-31 | DIODE LD-201VR | |
| D093 | 8-719-948-31 | DIODE LD-201VR | |
| D094 | 8-719-948-31 | DIODE LD-201VR | |

<IC>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| IC091 | 8-741-101-75 | IC SBX1610-11 | |

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*A-1651-040-A J BOARD, COMPLETE
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<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | | | |
|---|---|---|---|---|---|
| C281 | 1-126-103-11 | ELECT | 470MF | 20% | 16V |
| C293 | 1-101-003-00 | CERAMIC | 0.0047MF | | 50V |
| C294 | 1-101-003-00 | CERAMIC | 0.0047MF | | 50V |
| C295 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C296 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C906 | 1-101-004-00 | CERAMIC | 0.01MF | | 50V |
| C910 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C911 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C912 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C913 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C914 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C915 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C916 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C917 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C922 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C923 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C924 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C925 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C926 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C927 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C928 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C929 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C930 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C931 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C932 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN1209 | 1-695-302-11 | CONNECTOR, BOARD TO BOARD 50P | |
| CN1233 | *1-564-518-11 | PLUG, CONNECTOR 3P | |

<DIODE>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D903 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D904 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D907 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D908 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D909 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D910 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D911 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D912 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D913 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D914 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D915 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D916 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D917 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D924 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D925 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D926 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D927 | 8-719-921-69 | DIODE MTZJ-9.1 | |
| D928 | 8-719-921-69 | DIODE MTZJ-9.1 | |

<JACK>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| J903 | 1-561-534-41 | SOCKET, PIN 21P | |
| J905 | 1-695-293-11 | SOCKET 21P | |

<COIL>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L281 | 1-402-711-11 | INDUCTOR, WIDEBAND | |
| L282 | 1-402-711-11 | INDUCTOR, WIDEBAND | |
| L283 | 1-402-711-11 | INDUCTOR, WIDEBAND | |

<TRANSISTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q281 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146- | |
| Q282 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146- | |

<RESISTOR>

| REF.NO. | PART NO. | DESCRIPTION | | | |
|---|---|---|---|---|---|
| JR901 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR906 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR915 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR917 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR918 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR919 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR920 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR921 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR924 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR926 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR927 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR928 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR935 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR940 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR942 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR952 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR954 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR955 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR956 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR957 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| R282 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R283 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R284 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R287 | 1-216-216-00 | METAL GLAZE | 5.6K | 5% | 1/8W |
| R288 | 1-216-216-00 | METAL GLAZE | 5.6K | 5% | 1/8W |
| R289 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W |

**J** **V**

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R290 | 1-216-216-00 | METAL GLAZE | 5.6K | 5% | 1/8W | |
| R291 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R292 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R907 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R908 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R911 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R913 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R914 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R919 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R920 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R921 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R922 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W | |
| R923 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R924 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R925 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R926 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R927 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R928 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R929 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R930 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R931 | 1-216-212-00 | METAL GLAZE | 3.9K | 5% | 1/8W | |
| R932 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R933 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R934 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R935 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R936 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | |
| R937 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R938 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R939 | 1-216-188-00 | METAL GLAZE | 390 | 5% | 1/8W | |
| R940 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R941 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R942 | 1-216-188-00 | METAL GLAZE | 390 | 5% | 1/8W | |
| R943 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R944 | 1-216-188-00 | METAL GLAZE | 390 | 5% | 1/8W | |
| R945 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R947 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R950 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R951 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R959 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R960 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R965 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R966 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R967 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R968 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R969 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R970 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R971 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R972 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R973 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R974 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R975 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R976 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R977 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W | |

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*A-1645-024-A V BOARD, COMPLETE

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<CAPACITOR>

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C01 | 1-124-916-11 | ELECT | 22MF | 20% | 50V | |
| C02 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V | |
| C03 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V | |
| C04 | 1-124-916-11 | ELECT | 22MF | 20% | 50V | |
| C05 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V | |
| C06 | 1-124-120-11 | ELECT | 220MF | 20% | 16V | |
| C07 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | |
| C08 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V | |
| C09 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V | |
| C10 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V | |
| C11 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 25V | |
| C12 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V | |
| C13 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C14 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V | |
| C15 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V | |
| C16 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V | |
| C17 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V | |
| C18 | 1-163-093-00 | CERAMIC CHIP | 10PF | 5% | 50V | |
| C19 | 1-163-089-00 | CERAMIC CHIP | 6PF | 0.25PF | 50V | |
| C20 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V | |
| C21 | 1-163-833-00 | CERAMIC CHIP | 0.068MF | | 25V | |
| C22 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C23 | 1-163-210-00 | CERAMIC CHIP | 0.0016MF | 5% | 50V | |
| C24 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V | |
| C25 | 1-164-505-11 | CERAMIC CHIP | 2.2MF | | 16V | |
| C26 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V | |
| C28 | 1-163-137-00 | CERAMIC CHIP | 680PF | 5% | 50V | |
| C30 | 1-136-171-00 | FILM | 0.33MF | 5% | 50V | |
| C32 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V | |
| C33 | 1-124-910-11 | ELECT | 47MF | 20% | 50V | |
| C34 | 1-124-907-11 | ELECT | 10MF | 20% | 50V | |
| C35 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V | |
| C36 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V | |
| C37 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| C39 | 1-163-135-00 | CERAMIC CHIP | 560PF | 5% | 50V | |
| C40 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V | |
| C53 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V | |
| C54 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V | |

<CONNECTOR>

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN1737 | *1-564-511-11 | PLUG, CONNECTOR 8P | |
| CN1741 | *1-564-511-11 | PLUG, CONNECTOR 8P | |

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <TRIMMER> | | | | |
| CT01 | 1-141-418-11 | CAP, ADJ | | | | |
| | | <DIODE> | | | | |
| D01 | 8-719-400-18 | DIODE MA152WK | | | | |
| D03 | 8-719-104-34 | DIODE 1S2836 | | | | |
| D04 | 8-719-104-34 | DIODE 1S2836 | | | | |
| D09 | 8-719-400-18 | DIODE MA152WK | | | | |
| D10 | 8-719-400-18 | DIODE MA152WK | | | | |
| D11 | 8-719-400-18 | DIODE MA152WK | | | | |
| D12 | 8-719-400-18 | DIODE MA152WK | | | | |
| | | <IC> | | | | |
| IC01 | 8-759-166-41 | IC SDA5248-2C1 | | | | |
| IC02 | 8-759-037-64 | IC SDA5231-2 | | | | |
| IC03 | 8-759-035-39 | IC MCM514256AP80 | | | | |
| IC04 | 8-752-353-39 | IC CXD1050A-15P | | | | |
| IC05 | 8-759-987-16 | IC LM393P | | | | |
| | | <COIL> | | | | |
| L01 | 1-408-411-00 | INDUCTOR | 15UH | | | |
| L02 | 1-408-414-00 | INDUCTOR | 27UH | | | |
| L03 | 1-408-417-00 | INDUCTOR | 47UH | | | |
| L04 | 1-408-413-00 | INDUCTOR | 22UH | | | |
| L05 | 1-408-409-00 | INDUCTOR | 10UH | | | |
| | | <TRANSISTOR> | | | | |
| Q01 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q03 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q04 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q06 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q07 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q08 | 8-729-216-22 | TRANSISTOR 2SA1622-G | | | | |
| Q09 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q10 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q11 | 8-729-901-81 | TRANSISTOR 2SC2412K-T-146-R | | | | |
| Q12 | 8-729-901-00 | TRANSISTOR DTC124EK | | | | |
| | | <RESISTOR> | | | | |
| JR02 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | |
| R01 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R02 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R03 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W | |
| R04 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R05 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R06 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | |
| R07 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R08 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R09 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R10 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R11 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R12 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R13 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R15 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R16 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R17 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R20 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R21 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R22 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R23 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R24 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R25 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R26 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R27 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R28 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R29 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R30 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R31 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R32 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R33 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R34 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R35 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R36 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R37 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R38 | 1-218-773-11 | METAL CHIP | 750K | 0.50% | 1/10W | |
| R39 | 1-218-758-11 | METAL CHIP | 180K | 0.50% | 1/10W | |
| R40 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W | |
| R41 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R42 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R43 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R44 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R46 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R47 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R48 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R49 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R50 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R54 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R55 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W | |
| R56 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| | | <CRYSTAL> | | | | |
| X02 | 1-567-495-11 | OSCILLATOR, CRYSTAL | | | | |

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## MISCELLANEOUS

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| PART NO. | DESCRIPTION |
|---|---|
| ⚠ 1-402-746-21 | COIL, DEGAUSSING |
| ⚠ 1-451-311-21 | DEFLECTION YOKE (Y25FXA) |
| 1-452-032-00 | MAGNET, DISK; 10MM ϕ |
| 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM ϕ |
| 0-550-040-01 | SPEAKER |

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
|  | ⚠ 1-690-296-11 | CORD, POWER (WITH NOISE FILTER) (KV-B2511A,B2511B,B2511D,B2511K,B2513E) |  |
|  | ⚠ 1-590-762-11 | CORD, POWER (WITH PLUG) (KV-B2512U) |  |
| V901 | ⚠ 8-733-231-05 | PICTURE TUBE (A59JWC61X) |  |

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## ACCESSORIES AND PACKING MATERIALS

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| | |
|---|---|
| 4-202-183-41 | MANUAL, INSTRUCTION (KV-B2511A) |
| 4-202-183-81 | MANUAL, INSTRUCTION (KV-B2511B) |
| 4-202-183-11 | MANUAL, INSTRUCTION (KV-B2511D) |
| 4-202-183-91 | MANUAL, INSTRUCTION (KV-B2511K) |
| 4-202-183-61 | MANUAL, INSTRUCTION (KV-B2512U) |
| 4-202-183-71 | MANUAL, INSTRUCTION (KV-B2513E) |
| 4-202-255-81 | MANUAL, INSTRUCTION (KV-B2513E) |
| *4-039-171-01 | INDIVIDUAL CARTON |
| *4-039-172-01 | CUSHION (UPPER) (ASSY) |
| *4-039-173-01 | CUSHION (LOWER) (ASSY) |
| *4-396-065-01 | BAG, PROTECTION |

## REMOTE COMMANDER

| | |
|---|---|
| 1-693-176-11 | REMOTE COMMANDER (RM-830) |
| 9-903-466-01 | POCKET COVER (FOR RM-830) |

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